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Volume 156 No. 17 October 24, 1949

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Oil, Paint and Drug Reporter

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Drug Industry Studies Solutions Clarity Test

A new method of examination for determination of clarity of solutions for parenteral administration has been agreed upon by the working committees of the USP, the NF and the Combined Contact Committee of the American Pharmaceutical Manufacturers Association and the American Drug Manufacturers Association.

The new method is proposed as a substitute for the present method of testing ampules for clarity which has been the subject of considerable discussion between the drug industry and the Food and Drug Administration for more than a year. It is being offered for inclusion in the forthcoming revisions of the USP and NF and is now in circulation in the industry.

Dr. Hugo H. Schaefer of the Brooklyn College of Pharmacy and a member of the NF revision committee, is the author of the new testing method which has as its primary purpose eliminating the troublesome problem of borderline rejections and providing greater emphasis on good pharmaceutical practices. Essentially, the new proposed testing method is as follows:—

A sample of say eighty to 100 units of ampules are selected for examination and each ampule is examined under light. Those that fail to pass the clarity test are set aside. An independent observer records the number of rejections.

Percentage Allowed for Passage

On a sampling of eighty to 100 units, the batch is passed if rejections do not equal or exceed 16 percent. A progressive increase in the percentage of rejections is allowed, ranging up to 40 percent for sampling of as few as eleven ampules.

If rejections equal or exceed the percentage allowed, a second examination is made of all the units after they have been thoroughly mixed. If, on the second examination, the number of rejections do not exceed 75 percent of the number rejected on the first examination, the lot is passed.

The proposed new testing method is the result of a number of meetings by the working group and with officials of the FDA and, while it still does not elminate the problem of human errors, it is believed to represent the best method of examination under the circumstances.

Meanwhile, development for ADMA of a machine for the testing of ampules for clarity is nearing completion by the RCA-Victor Research Laboratory, with very good results reported from the sample testing thus far made. This machine, based on the principle of broken or deflected light rays, automatically throws out ampules which fail to measure up to a set standard of clarity. The machine has been developed to even make several tests of borderline cases before the ampule is passed or rejected.

Narcotics Bureau Amends Distribution Regulations

Regulations of the Bureau of Narcotics relating to distribution of narcotic drugs were amended on October 7 to permit Class VI registrant producers to transfer appropriate quantities of the drug to other registrants for chemical or pharmacological tests, including tests for clinical evaluation.

Those desiring to make transfers for such testing should first make application to the Commissioner of Narcotics stating the name and profession of the prospective transferee, the quantity and kind of narcotic drug proposed to be transferred, and the purpose of the chemical or pharmacological tests desired to be made.

Army Anhydrous Ammonia Distribution Law Revoked

Distribution order D-1, relating to distribution of army anhydrous ammonia under the law which required the army to make available 10 percent of its anhydrous ammonia production to the domestic fertilizer manufacturers, was revoked in an order signed October 11 by Raymond S. Hoover, issuance officer of the Office of Domestic Commerce. The action was taken in response to the repeal by Congress, in the appropriation bill for the Economic Cooperation Administration, of the law which required the army to make its ammonia available to private industry.

Metals Lab Bill Progresses

House bill 2386 providing for establishment and operation of a rare and precious metals experiment station at Reno, Nev., was passed by the house last week. The bill provides for a laboratory under the Bureau of Mines which would serve as a center for information and assistance in matters pertaining to the mining, preparation, metallurgy, use, and conservation of the rare and previous metals of the Sierra Nevada mining region.

Streptomycin Output Up

Production of streptomycin in August reached a new high of over 8,000,000 grams, according to the Office of Domestic Commerce. Production of the antibiotic for the first eight months of this year totaled nearly 52,000,000 grams, more than the total output for the combined years of 1946, '47 and '48.

Price Trend Goes Down Again

There were price advances last week in three of the ten major divisions of the markets for chemicals, oils, and drugs. There were reductions in eight, including two of the three with advances and outweighing the latter in both instances. Some of the reductions did not have weight enough to affect the division price levels; but, there were reductions in five and a slight advance in one—petroleum. The result was another cut of 0.6 point in the overall index, which put it 17 points (11.9 percent) below the comparable 1948 level.

The only price advances other than that on heavy fuel oil were on a few spices, including cassia and pepper, and two aromatic oils. Advances were more numerous in both divisions. Fats and oils had six cuts and no raises. Packinghouse by-products and related feedstuffs were reduced because feeders were not buying. Recent price reductions in heavy chemicals did not stimulate buying. Corn derivatives were reduced.

The weakness of nonferrous metals was increased by another cut in quicksilver, and was reflected more widely by reductions in lead sulphates, silicates, and metallic paste, leaded zinc oxide, and antimony sulphide. In other areas, the heavy inorganics were quiet and dull. Chlorine is scarce. There was some increase in the uncertainty deriving from the steel and coal strikes. The aluminum strike gave an assist. Coaltar circles were nervously hoping for peace in the labor disturbances. Some better activity was noticeable in other organic areas, especially with regard to solvents. But, even there, the outlook was at least misty. Demand was down further in relation to pharmaceuticals. Reductions were made in oxyquinolins and epinephrin. Toxaphene was reduced in a general intent to forestall a repetition of the recent late-season excess of demand for insecticides.

Agricultural chemicals as a whole were idle. Fertilizer materials are piling up in producers' plants because farmers prefer to let producers do the storing. The consequence might be disturbing.

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

Oct. 21, 1949	Oct. 14, 1949	Oct. 22, 1948
126.1	126.7	143.1

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1949	1948	1947	1946	1941
January	142.0	150.4	150.9	135.3	107.3
February	140.4	147.2	151.9	135.4	110.3
March	137.6	146.2	154.9	135.2	111.9
April	133.6	146.2	152.3	134.9	115.5
May	131.2	146.7	146.1	135.1	118.2
June	128.7	147.3	143.9	135.4	121.9
July	128.1	145.9	142.5	137.7	125.5
August	128.9	144.4	140.4	136.6	128.2
September	129.1	144.3	141.9	137.0	130.4

Freight Absorption Bill Adoption Blocked by Filibuster in Senate

Final action on the O'Mahoney freight absorption bill (S. 1008) was postponed until next session by the senate last week when a filibuster against adoption of the conference report threatened to hold up adjournment of Congress. The measure is scheduled to come up again in the senate on January 20. The house has approved the report and all that awaits is similar senate action for the measure to go to the White House.

The decision to postpone came after Senator Joseph O'Mahoney of Wyoming, author of the bill, joined in criticizing the agreement reached by the conferees on the grounds that the bill would go far beyond the intent of Congress in legalizing freight absorption and delivered pricing systems. The objectionable feature of the conference action, he said, was in defining the term "the effect may be" to mean that "there is reliable, probative, and substantial evidence of the specified effect."

Senator O'Mahoney pointed out that for twenty years the supreme court has defined the words "the effect may be" as contained in the Clayton act to mean that the reasonable and probable results of the acts in controversy would be substantially to lessen competition. While the conference committee sought to limit the new definition by a statement in the report to a particular part of section 2 (a) of the Clayton act, he stated, this cannot be done.

He pointed out that it is the undeviating rule of the court that an enactment of Congress will be interpreted as meaning what it says and not as meaning something else which may be set forth in a report on it in debate. Only where the words are ambiguous do the courts go to any outside evidence to explain the meaning of a statute.

Past Decisions Affected

Since the new definition proposed to be written into law is so clear that anyone can understand it and therefore without any question of ambiguity, he continued, there would be nothing left for the courts except to apply the new definition to the phrase "the effect may be" wherever it appears throughout the Clayton act and thereby upset the whole line of decisions rendered on this point in the past.

The sole objectives of the bill, he added, is to maintain the vigor of the anti-trust laws and to clear up the legality of freight absorption and delivered pricing systems which do not have the effect of substantially lessening competition when adopted by collusive methods, and not limit the authority of the Federal Trade Commission to bring actions where there is a reasonable probability of monopolistic practices.

Alcohol Production Rules Revised by Revenue Bureau

A number of minor amendments to regulations covering the production of distilled spirits were announced on October 20 by the Bureau of Internal Revenue.

One of the amendments brings the regulations in conformity with other regulations in respect to bond requirements in those cases where quantities of taxfree alcohol in excess of five wine gallons (ten proof gallons) at one time are procured for economic reasons by permitees whose permits limit the annual withdrawal and use to sixty wine gallons.

Another amendment authorizes the district supervisor to permit the resumption of operations by an industrial alcohol plant which has been operating as a registered distillery or a fruit distillery and which has been previously approved by the commissioner, prior to review of the qualifying documents by the commissioner.

A third amendment deletes a requirement that the district supervisor of the receiving district prepare and furnish the district supervisor of the shipping district a copy of the withdrawal permit, in those cases involving interdistrict shipments of alcohol and specially denatured alcohol.

Another amendment prescribes Form 1472 for use in connection with the submission and approval of samples of denaturants in certain cases. The final amendment insures that the quantity of specially denatured alcohol authorized to be withdrawn and used under basic permit, Form 1481, will be within the total authorized by all withdrawal permits.

Alcohol Tax Regulations Amendment Passes House

The house last week passed H.R. 5486, amending the Internal Revenue Code by modifying the loss allowances and permitting the use of stamp machines for payment of taxes on distilled spirits.

Under existing law losses are allowed for tax purposes, resulting from leakage, evaporation and certain other general classes of losses, but in order to determine such losses each barrel of distilled spirits must be gaged prior to removal from bond. To eliminate the costly process of handling each barrel separately, the bill permits the distiller to dump all barrels of like spirits which he desires to remove at any one time into a single tank and there be gaged in the composite mass and a determination made of the total tax due.

The other section of the bill permitting the use of stamp machines for payment of taxes does away with the present costly system which requires the distiller, after the tax due on a package is determined, to send the gage data and tax money to the Collector of Internal Revenue for preparation of the stamps.

Mining Incentive Bill Fails to Pass House

Senate bill 2105, providing Federal incentives to the mining and conservation of strategic and critical metals and minerals failed of enactment in the closing days of the session when proponents in the house were unable to muster enough votes to pass the measure under "gag" rule procedure. The bill remains alive, however, and will come up again next session.

It authorizes the Bureau of Mines to enter into contracts to pay up to 50 percent of the cost of exploration for new deposits and up to 50 percent of the costs of keeping properties in operation as a conservation measure. It is estimated that the program will cost $80,000,000 a year, and it was largely because of the expense involved that the house refused to pass it at this time.

FTC Post to Mead; Gets Senate Approval

Former Senator James M. Mead of New York was confirmed by the senate on October 19 as a member of the Federal Trade Commission, to succeed Garland S. Ferguson. He will finish out Mr. Ferguson's unexpired term, running for seven years from September 26, 1948.

Mr. Ferguson, who served twenty-two years on the commission, had asked the President to be permitted to resign effective November 15. He had not been reappointed for the full seven-year term when his term expired over a year ago, but has been serving under a recess appointment since that date.

Mr. Mead served eighteen years in the house, becoming chairman of the committee on post office in 1933. Subsequently, he was elected to fill the unexpired term in the senate caused by the death of Senator Royal S. Copeland and in 1940 was elected to a full term.

Drug Reprocessing Bill Gets Truman Signature

House bill 160, amending section 801 of the Federal food, drug and cosmetic act relating to imports, was signed into law on October 18 by President Truman. The bill legalizes a practice that has been followed for years by the Food and Drug Administration of permitting imported products which fail to meet the standards of the FDA act to be reprocessed or reworked and made to conform. It also provides that the administrative costs of supervising this work by FDA agents shall be paid by the importer or consignee.

United States–Colombia Trade Pact to Terminate December 1

Termination of the reciprocal trade agreement between the United States and Colombia, announced on October 17 by the Department of State, will mean an increase in import duties on only one product named in the agreement—tolu balsam. Beginning December 1, the effective date of the termination of the agreement, American duties on imports of this product will return to the old rate in the 1930 tariff act of 10 percent.

Two other dutiable items contained in the agreement on which the United States had agreed to reduce duties by 50 percent will continue to come in at the reduced rates since they are also included in the trade agreement between the United States and Brazil. They are ipecac, natural and uncompounded, but advanced in value by shredding, etc., dutiable at 5 percent; and castor beans, dutiable at ¼ cent per pound.

Due to a situation that exists in Colombia, United States shipments to that country probably will continue to move at the reduced rates contained in the agreement until well into next year, according to the best information the Department of State can get from that country. Although the agreement no longer remains in force after December 1, the old rates cannot go into effect until approved by the Colombian congress under that country's constitution.

In view of the fact that Colombia is getting ready for a presidential election, the department does not believe that there will be time between now and the date of adjournment of the congress December 16 for the congress to pass on the question. The next session of congress will not be held until July, 1950. Instead of going back to the rates existing prior to the agreement, the department understands that Colombia plans to write an entire new schedule of rates considerably higher than before.

Colombian Imports Listed

The agreement between the United States and Colombia was one of the first entered into under the reciprocal trade agreements act of 1934. It was negotiated in 1935 and became effective by Presidential proclamation on May 20, 1936. In it the United States agreed to duty reductions on only three products and agreed to bind nine other products on the free list. Colombia, on the other hand, reduced duties on a larger number of American products, including many in the chemical and allied industry fields. On the list of

—Continued on page 46

AICE Plans Technical Program for Dec. Meeting

The American Institute of Chemical Engineers has completed the technical program for its annual meeting, to be held at the William Penn hotel, Pittsburgh, on December 4 to 7. Technical papers will be presented at morning and afternoon general sessions, and there will be three technical symposia and two panel discussions.

Many of the papers describe recent work in the fields of heat transfer, fluid flow and mass transfer, distillation and absorption. Thermal data are presented for gases at high pressures, heat transfer media, fluidized systems, and fixed porous beds; correlations of heat transfer coefficients are established for various types of finned tubes.

Two papers describe velocity distribution and turbulent mixing in isothermal free jets; fluid-solid systems are also discussed in relation to their kinetics and mass transfer characteristics. Physical separation problems come in for atten-

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Air Pollution Health Hazards Probes Asked

Representatives Herman P. Eberharter and Augustine B. Kelley of Pennsylvania introduced identical resolutions (H.J. Res. 379 and 380) in the house last week for a program of research by the United States Public Health Service into the health hazards of air pollution. The resolutions are the outgrowth of the recent investigation of the hazardous smog that enveloped the area around Donora and Webster, Pa., a year ago.

The inquiry would be directed into the health hazards of air pollution and to determine the long-range and chronic, as well as the acute, effects of air pollution, and also to establish specific engineering preventive and control measures for eliminating the dangers of air contamination. The resolutions would appropriate $750,000 for the investigation.

Dihydrazine Sulphate Offered by Mathieson

Mathieson Chemical Corporation, Baltimore, is currently producing dihydrazine sulphate in semi-commercial quantities, and is offering the material in one-pound bottles and in drums. Containing 37.5 percent available hydrazine, the salt is being produced as a flaked product and is said to have 60 percent higher hydrazine content than hydrazine acid sulphate and twenty times the solubility. Technical data may be obtained by requesting data sheet 124.1 from the company's product development department at 60 East Forty-second street, New York.

Sugarcane Wax Lower

Korlis, Ltd., New York, is currently importing crude and refined sugarcane wax from British Empire sources. The wax is quoted 35 cents to 37 cents per pound for crude and 41 cents to 43 cents per pound for refined, delivered at New York. These prices are reportedly considerably lower than former quotations, owing to the recent devaluation of British Empire currencies.

Haggerson Gets Award

Fred T. Haggerson, president of Union Carbide & Carbon Corporation, New York, was awarded the research award of the American Society of Metals at the annual Metals Congress in Cleveland. The award was made in recognition of Mr. Haggerson's contributions to the advancement of research.

Toxaphene Price Reduced

Hercules Powder Company, Wilmington, Del., last week announced a 4 cents per pound reduction in technical toxaphene, retroactive to October 1. The new price, 20 cents a pound, is expected by the company to hold firm through September 30, 1950.

President of J.T. Baker

Marion W. Smith has been elected president and general manager of the J. T. Baker Chemical Company, Phillipsburg, N. J., a subsidiary of Vick Chemical Company, New York. He succeeds Herbert H. Garis, who continues as a director. Mr. Smith is vice-president and director of Vick and in recent years has been a director of Baker. Elected to Baker's board were Dr. Joseph R. Stevens, technical director; Leslie W. Garner, treasurer and comptroller, and Robert R. Wittenberg.

Ammonium Sulphate Sold For Shipment to China

The Best Fertilizer Company, Oakland, Calif., was successful bidder on the major portion of 45,000 tons of ammonium sulphate fertilizer to be bought by the Bureau of Federal Supply for shipment to China. The Best organization's bid was for 30,000 tons of the material at $46.10 per ton, half f.a.s. Baltimore and half f.a.s. Houston.

The remainder of the award went to the Wah Chang Trading Corporation, New York, for 10,000 tons at $46.50 f.a.s. New Westminster, British Columbia, and the Allied Raw Materials Company, New York, for 5,000 tons at $57.82 cost and freight Taiwan, China.

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ECA Sept. Spending Was $272,900,000

A total of $272,900,000 was made available to Marshall plan countries for purchase of industrial commodities and $156,300,000 for food and agricultural commodities during the month of September by the Economic Cooperation Administration. The month's total of authorizations was the second highest of the year, being exceeded only by the month of May.

Procurement authorizations for the purchase of fats and oils totaled $9,000,000, including the following:—$1,800,000 for peanuts; $600,000 for soybeans; $800,000 for flaxseed; $800,000 for lard; $400,000 for tallow; $2,400,000 for soybean oil; $200,000 for soap, soap stock and fatty acids, and $2,000,000 for other fats and oils. Fertilizer authorizations amounted to $800,000.

Authorizations for chemicals and related products amounted to $17,200,000, including the following:—$1,300,000 for medicinal and pharmaceutical preparations; $3,400,000 for industrial chemicals, excluding alcohol, and $12,400,000 for other chemicals and related products. In the industrial field allotments also were

—Continued on page 76

ECA Announces Additional Procurement Authorizations

Among the new procurement authorizations issued to Marshall Plan countries during the period October 14 through October 19 by the Economic Cooperation Administration were the following:—

To Austria—$350,000 for hides and skins from Canada.

To Bizone Germany—$729,000 for chemicals excluding fertilizers, synthetic rubber and toilet preparations, and $10,000 for nonmetallic minerals from Latin America.

To Denmark—$20,000 for industrial chemicals other than alcohol from the United States.

To France—$885,000 for petroleum from the United States.

To French North Africa—A decrease of $100,000 for zinc from the United States.

To Ireland—A decrease of $208,000 for inedible molasses from Latin America.

To Italy—$53,000 for nickel from Canada.

To Netherlands—$45,000 for hog bristles and a decrease of $68,000 for petroleum from the United States.

To Sweden — $25,000 for nonmetallic minerals from the United States.

To United Kingdom—$120,000 for pancreas glands from the United States and Latin America, and a decrease of $14,000 for alcohol from the United States.

To Korea—$3,632,000 for nitrogenous fertilizers, and $207,000 for chemicals, excluding fertilizers, synthetic rubber and toilet preparations, from the United States; $900,000 for nonmetallic minerals from Japan.

Monsanto Names Sheppard Merrimac Purchasing Head

Monsanto Chemical Company, St. Louis, Mo., has appointed W. P. Sheppard jr. purchasing agent for its Merrimac division, to succeed Edward Hathaway, who will retire on November 1.

Mr. Hathaway joined the Monsanto organization in 1902 with the Cochrane Chemical Company, which was later consolidated with the Merrimac Chemical Company. In 1939 he was appointed purchasing agent for the Merrimac division, and in 1943 was placed in charge of the Merrimac purchasing department.

U.S.I. Advances Redmon

Bryan C. Redmon has been appointed assistant director of organic chemical research by U. S. Industrial Chemicals, Inc., at the company's Baltimore laboratories. He was with American Cyanamid Company as a research chemist and group leader from 1937 to 1945, on the faculty of the University of Massachusetts from 1945 to 1946, and joined U. S. Industrial Chemicals, Inc., in 1946.

Who Has It?

Inquiries in the OPD editorial office seek sources from which the materials listed below can be obtained. Information will be gratefully received here:—

Acyldiazine.
Benzalin.
Butadiene monochlorhydrin.
Copper amino sulphate.
Cyclohexylhexanol.
Isobutyl hexanol.
Methyl cyclopropylketone.
Potassium glycerate.

Chemical Research Limitation Feared

The absenec of sufficient risk capital needed for expenditures arising from successful research projects and the inability of top management to find time to adequately investigate projects may tend to limit the results of research in the chemical industry, according to Dr. C. E. Rassweiler, vice-president in charge of research and development for the Johns Manville Corporation, New York.

As dinner speaker at a joint meeting of the Chemical Market Research Association and the Commercial Chemical Development Association, held in Philadelphia on October 19, Dr. Rassweiler pointed out that, because of these two factors, the necessity exists for market research guidance to aid management in making major decisions.

Dr. Rassweiler stated that the return of a true buyers' market, plus factors limiting plant expansion, make it imperative that products be tailor-made to guarantee customer acceptance. The role of market research, he said, is in aiding management in making profitable decisions.

The luncheon speaker, John F. Bunn, jr., of Partner-Bioren & Co., discussed the chemical industry's outlook from an investment counsel's point of view. He reviewed the past history of the industry and its present status, and voiced the belief that it will remain one of the most stable in the United States because of its unusually high average ratio of three and eight-tenths to one of assets to liabilities.

The morning session was devoted to a discussion of how outside agencies can assist in market research and development, with representatives from five independent market research and management counselling organizations participating.

The afternoon session was a series of five informal panel discussion on various topics of wide interest to the chemical industry. The subjects were:—

"Sampling as a Part of New Product Introduction"; "How Can Market Research Guide Top Management in Diversification"; "How Does Market Research Assist in Developing Markets for New Products"; "Finding New Markets for Old Chemicals with Market Research," and "Pricing of New Chemicals in the Introductory Stage."

Pitts. Glass to Build California Paint Plant

Pittsburgh Plate Glass Company, Pittsburgh, is planning the construction of a new paint plant at Torrance, Calif. Contracts are expected to be signed in the near future for the construction of the plant, which will cost approximately $1,250,000, and production of paint is scheduled about ten or twelve months after construction starts. Original equipment to be installed will permit production of 1,500,000 gallons annually, and sufficient area is being provided for additional equipment to boost the production to 2,600,000 gallons annually.

Du Pont Develops New Titanium Dioxide Grade

E. I. du Pont de Nemours & Co., Wilmington, Del., has developed a new grade of titanium dioxide for vitreous enamels and the general ceramic field. The distinguishing characteristic of the new product is said to be its free flowing properties, which permit satisfactory dry mixing and handling. Developed for use in vitreous enamels as an opacifier, the product has been trademarked "Ti-Pure VG".

SAACI Meets Thursday

The Salesmen's Association of the American Chemical Industry will hold its annual meeting at the Roosevelt hotel, New York, on October 27. The business session of the meeting will be devoted to the election of a nominating committee.

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with OPD office:—

Blood plasma, dried, Karachi, Pakistan (EP-8).

Chemicals, Teheran, Iran (EP-3, agency).

Chemical raw materials, Tokyo, Japan (EP-7).

Cottonseed oil, Taipeh, China (EP-2).

Dyes, fur, Oslo, Norway (EP-3, agency); general, Teheran, Iran (EP-5, agency).

Film waste, Turku, Finland (EP-4).

Gelatine, white, Turku, Finland (EP-4).

Polishing materials for metals, Tokyo, Japan (EP-7).

Procain penicillin, Hamburg, Germany (EP-6).

Vinylidene chloride, Barcelona, Spain (EP-1, manufacturers only).

Washington Talks It Over

By Ralph L. Cherry

One of the last acts of the Congress just adjourned was to reach an agreement on the final terms of the wage-hour-law revision bill which has been the subject of continuous controversy over the past three years as a result of efforts of the administration to raise the floor levels on wages and to broaden the coverage of existing law to include larger numbers of workers.

Congress has seen fit to meet the administration only half way. It has raised the minimum wage from 40 cents to 75 cents an hour, but, instead of bringing in more workers, it has excluded thousands now covered. This exclusion is important to industry, not so much from the standpoint of the workers who might not be receiving the 75 cents minimum, but rather from the effect of having to pay overtime to the workers in the higher-pay brackets.

The way Congress accomplished this was to modify the definition of the term, "produce," so as to include only those workers "directly essential" to production for interstate commerce. This would include the workers employed by firms engaged in interstate operations, including maintenance, custodial, and clerical employees, and also workers of an independent employer performing work on behalf of a firm for commerce, but it would not include workers of merchants who sell their goods locally when such goods do not become a part or ingredient of the goods produced by any of their customers.

The following are two examples given by the conference committee of cases in which the wage-hour administrator and the courts will no longer be able to hold the act applicable because the activities involved in such cases are not closely related or directly essential to production:—

1. A local fertilizer company engaged in selling all of its fertilizer to local farmers within the State for use on land on which sugarcane is grown, which cane is then sold to sugar mills within the State and processed into raw sugar which is sent out of the State.

2. Employees of a local exterminator service firm, who work wholly within the State exterminating roaches and other pests in private houses, apartments, hotels, barber shops, colleges, hospitals, and also in buildings within the State used to produce goods for interstate commerce.

Military Supply Pricing

The munitions board believes that there is room for improvement in existing contractual relations between the military services and their suppliers and has set up a special advisory committee to bring this about. One of its first tasks will be to recommend the best pricing methods for military procurement.

The committee is now getting down to work and is giving much thought to these subjects:—(1) Price ceilings for government procurement, (2) pricing and repricing of individual contracts, (3) company pricing, (4) incentive-type contracts, (5) cost-type contracts, (6) miscellaneous pricing problems, including subcontracting as a factor in profit allowances, and (7) profit-recovery measures, including renegotiation.

The industry committee's first project will be to obtain member answers to a number of questions concerning the pricing methods currently used. On the basis of their experience in World War II, the members will express their opinions concerning the effects on efficiency, costs, prices, and output of the various types of contracts and profit limitations.

Fertilizer for New Lands

Department of Agriculture soil scientists are more than a little perturbed over the way celebrants at ceremonies marking the opening of new irrigation districts overlook the importance of fertilizer to the new lands being opened to farmers. At countless ceremonies the speaker of the day has referred to the water that will cause the desert to "rejoice and blossom as the rose." Water is not enough, according to the department's studies. The need is for water and nitrogen—even on virgin soils.

In studies to smooth the path of the new irrigation farmer, the results have shown that the new soils need nitrogen and plenty of it on the very first crops. First plantings of corn have benefited by applications of up to 240 pounds of actual nitrogen to the acre (nearly a half-ton of commercial fertilizer. Potatoes need about half as much. A Winter cover crop of vetch is advisable on many fields after the first harvest.

Ross W. Leamer, one of the department scientists engaged in this "presettlement" research, emphasizing the need for nitrogen as well as water, says:—"Supplying one of these without the equivalent amount of the other is wasteful, not only of the one applied but also of time and labor." After the first few crops, he adds, there may be need for changes in fertilizer usage. Most of the new farms have a good supply of potassium in the soil and some have enough phosphorus for a few crops, but farmers may find it wise to begin using light applications of phosphate soon.

Mechanizing the Cotton Field

Mechanization of cotton farming as a goal sought under the research and marketing act is progressing rapidly as a result of a program instituted across the entire cotton belt two years ago by the Department of Agriculture. Cotton is now one of the least mechanized of the major crops. It requires about five times as much hand labor as wheat and about three and a half times as much as corn to produce a given gross income.

All segments of the industry, farm machinery and cotton gin manufacturers, and the agricultural chemical and fertilizer industries are cooperating in an all-out attempt to reach the ultimate. Research on

—*Continued on page 34*

Crude Drugs Survey Reveals Ample Stocks

After an early collection season featured by fine weather, plentiful labor, and mounting stocks obtained at declining prices, the gathering of domestic botanical drugs was all but completely washed out by virtually continuous early Summer rains in the more important collection areas. With a single exception, all factors that are apt to determine the future course of the 1949-1950 market appear to have been set. And the one exception this year is the size of future demand usually a dominant factor in any year.

If demand rises above the relatively low volume of sales that prevailed in the 1948-1949 consuming season, then the better-than-fair sized stock carried over, plus the domestic botanicals bought this year for less money, should, in the future, sell at steadier and perhaps higher prices.

Such was the opinion given the OPD reporter in his annual visit with the crude drug collectors in the Blue Ridge and Great Smoky mountains of the southern Appalachians. It was an 1,800-mile journey to the collection depots of S. B. Penick & Co., at Asheville, N. C., and Roan Mountain, Tenn.; R. T. Greer & Co., Bristol, Va.; the Wilcox Drug Company, Boone, N. C., and the Greer Drug Company, Lenoir, N. C., together with contacts with many individuals who do the actual collection of crude drugs.

If present stocks at the origin are of better than fair size, that condition is due almost completely to the stocks carried over from the collection season of 1948-1949 and only moderately to the fact that diggers, gatherers, and pickers early in 1949 produced substantial quantities of botanicals for a relatively short period of time.

The quantities collected for a short time were so substantial that collectors began to reduce posted prices in anticipation of a bumper crop. Labor in the mountain areas was plentiful when Spring collection began. A slump in lumbering operations had resulted from a curtailment of furniture manufacture and, to a limited extent, in building operations. This slump, in turn, caused a rise in the number of workers available for crude drug collection, and the effect of more labor was quickly evident in the amount of drugs reaching the collection depots.

Then came the rains. Day after day, and week after week, rains fell throughout the collection areas, soaking the whole country-side and putting an end to drug collection. Not until late Summer was it possible to resume collection and drying of botanicals.

Drying collected botanicals was all but impossible during most of the season—and, when the gatherers could not dry their collections, gathering came to a halt, since few of the major collectors will buy any but thoroughly dried merchandise.

Betterment of weather conditions and a lift to prices that collectors would pay came too late to change materially the course of stock accumulation. And at the

—*Continued on page 63*

Gates Appoints Wilkins Fertilizer Division Head

George F. Wilkins has been appointed general manager of the fertilizer division of Gates Bros., Inc., Wendell, Idaho, and also becomes an active member of the board of directors of the corporation.

For nineteen years Mr. Wilkins was associated with the General Chemical Division of Allied Chemical & Dye Corporation, having been in production, research, and for the past ten years in the technical service department. For the last nine years he headed up General's west coast service department.

Construction work at the Gates plant at Wendell has been completed on units to produce wet process phosphoric acid, which will be used in their plant for the manufacture of triple superphosphate. The plant was built in cooperation with the Idaho Farm Bureau and will produce an estimated 100 net tons of triple superphosphate per day.

Fleming Leaves Mallinckrodt

Mallinckrodt Chemical Works, St. Louis, Mo., has temporarily named R. D. Twomey and M. F. Schmidt to take charge of sales operations in the southern California area, pending the appointment of a successor to Fred D. Fleming, who was retired. Mr. Fleming, who was west coast manager for the company, had been associated with it since 1921.

Tin Ores Duty Bill Approved by House

The house passed H.R. 2585 on October 18, which provides an exemption from duty of lead and zinc impurities contained in tin ore if the lead and zinc are not actually recovered. Under present law there is no duty on such nonrecoverable metals contained in copper, gold, or silver ore and the bill would apply the same principle to tin ores.

It was explained that lead and zinc are often contained in tin ores, but in such small quantities that they cannot be economically recovered. Nevertheless, under existing wording of the tariff law these small quantities of unrecoverable metals are dutiable and it amounts to a burden on the tin smelter for which he receives no offset advantage.

Biggs Named Representative On Synthetic Fuels Board

Rear Adm. Burton B. Biggs, U.S.N., executive secretary of the Munitions Board petroleum committee, has been designated the Department of Defense representative on the interdepartmental board on synthetic liquid fuels. The interdepartmental board coordinates for the military departments the testing of all synthetic liquid fuel products of Bureau of Mines enterprises.

National Lead Shifts Four in Baroid Division

The baroid sales division of the National Lead Company, New York, has appointed Reginald Rowand manager of its Magnet Cove, Ark., barytes plant and properties. In addition, Harold E. Billings has been named supervisor of product control for the division's production department; B. C. Elsley has been appointed assistant superintendent of bentonite plants and properties, and Byron H. McCain has been made superintendent of bentonite mines and mills.

Mr. Rowand joined the division in 1945 and was named superintendent of bentonite plants and properties in the following year. Mr. Billings joined the company's titanium division in 1925 and transferred to the baroid division in 1945. In 1946 he was made superintendent of the Osage, Wyo., benetonite plant, and in the following year was named cost analyst in the production department.

Mr. Elsley joined the division in 1946 as a junior geologist and later became a staff engineer. Mr. McCain joined the division in 1948 as supervisor of excavation.

Miller Joins Westvaco

Westvaco Chemical Division, Food Machinery & Chemical Corporation, New York, has placed C. M. Miller in charge of market research. Mr. Miller was formerly associated with the chemical department of the General Electric Company and with the Socony-Vacuum Oil Company.

Field Rations Now and In 150 B. C.

Compare the pictures shown here. One is the well-known field ration of World War II. The other, about as large as an olive, is a replica of the field ration developed by the Greek army engineer and supply officer, Philon in 150 B.C. and used as late as the sixteenth century.

Dr. Pan S. Codellas of the University of California Medical School is responsible for this research as published in the Bulletin of the History of Medicine, and, according to Dr. Codellas, Philon was no slouch because the ration packed a real nutritional wallop. Philon's ration contained honey for its carbohydrate content, sesame for protein, squill for its tonic effect, and opium to allay hunger pains.

Strange, in the light of our greater pharmacological knowledge, that nearly 2100 years later we are still using these same nutritive and tonic substances, and although neither opium nor its alkaloids can now be lawfully used as a means of allaying hunger pains, the alkaloids are still tops in professional medical practice.

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Association Meetings

American Association for the Advancement of Science, New York, December 26-31.
American Fair Trade Council, Waldorf-Astoria hotel, November 16-17.
American Institute of Chemical Engineers, William Penn hotel, Pittsburgh, Pa., December 4-7.
American Oil Chemists Society, Edgewater Beach hotel, Chicago, October 31-November 2.
American Petroleum Institute, Chicago, November 7-10.
American Pharmaceutical Association, Traymore hotel, Atlantic City, N. J., April 30-May 5.
American Pharmaceutical Manufacturers Association, Waldorf-Astoria hotel, New York, November 28-30
American Society of Agronomy, Milwaukee, Wis., October 25-28.
American Society for Testing Materials, William Penn hotel, Pittsburgh, February 27-March 2.
Association of Consulting Chemists and Chemical Engineers, Sheraton hotel, New York, October 25.
Chamber of Commerce of the United States, industrial relations conference, Chicago, November 16.
Chemical Market Research Association, Statler hotel, Detroit, February 2.
Compressed Gas Association, Waldorf-Astoria hotel, New York, January 23-24.
Cotton Textile Institute, Waldorf-Astoria hotel, New York, November 3.
Exposition of Chemical Industries, Grand Central Palace, New York, November 28-December 3.
Federation of Paint and Varnish Production Clubs, Chalfonte-Haddon Hall, Atlantic City, N. J., November 3-5.
Flavoring Extract Manufacturers Association, Traymore hotel, Atlantic City, N. J., May 7-10.
Independent Natural Gas Association of New York, Baker hotel, Dallas, Tex., October 31.
National Association of Chain Drug Stores, Hollywood Beach hotel, Hollywood, Fla., April 11-14.
National Association of Insecticide and Disinfectant Manufacturers, Mayflower hotel, Washington, December 5-6.
National Barrel and Drum Association, Statler hotel, New York, November 3-5.
National Confectioners Association, Waldorf-Astoria hotel, New York, June 4-9.
National Fertilizer Association, Atlanta-Biltmore hotel, Atlanta, Ga., November 14-16.
National Foreign Trade Council, Waldorf-Astoria hotel, New York, October 31-November 2.
National Paint, Varnish and Lacquer Association, Chalfonte-Haddon Hall, Atlantic City, N. J., October 31-November 2.
National Paint Salesmen's Association, Palmer House, Chicago, November 6-8.
National Petroleum Association, Cleveland hotel, Cleveland, April 12-14.
National Plastics Show, Navy Pier, Chicago, March 28-31.
National Wholesale Druggists Association, Waldorf-Astoria hotel, New York, September 16-21.
Oil Trades Association of New York, Waldorf-Astoria hotel, New York, October 27.
Pacific Chemical Exposition, San Francisco Civic Auditorium, November 1-5.
Packaging Institute, annual forum, Commodore Hotel, New York, October 24-26.
Packaging Machinery Manufacturers Institute, Edgewater Beach hotel, Chicago, October 31-November 2.
Salesmen's Association of the American Chemical Industry, annual meeting, Roosevelt hotel, New York, October 27.
Society for the Advancement of Management, Statler hotel, New York, November 3-4.
Society of Chemical Industry, American section, Waldorf-Astoria hotel, New York, November 4.
Society of Cosmetic Chemists, Savoy Plaza hotel, New York, December 8.
Society of Rheology, New Yorker hotel, New York, November 4-5.
Synthetic Organic Chemical Manufacturers Association, Commodore hotel, New York, November 9; annual meeting, Commodore hotel, December 7.

Tydings to Address Fair Trade Meeting

Senator Millard Tydings of Maryland, co-author of the Miller-Tydings Act of 1937, will be the principal speaker at the tenth annual meeting of the American Fair Trade Council. The two-day meeting, on the theme "Fair Trade—Weapon Against Monopoly," will be held in New York at the Waldorf-Astoria hotel on November 16 and 17.

Commercial Solvents Adds New Research Facilities

Commercial Solvents Corporation, New York, has put a new $2,000,000 addition to its research center at Terre Haute, Ind., into operation. A new wing has been added to the original research building, and a new two-story bacteriological pilot plant has been built.

APhA Plans 1950 Meeting

The American Pharmaceutical Association will hold its next annual meeting at the Traymore hotel, Atlantic City, N. J., on April 30 to May 5, 1950.

Oil Chemists to Hear Of Research Progress

The American Oil Chemists Society has completed the program for its twenty-third annual meeting, to be held at the Edgewater Beach hotel, Chicago, on October 31 to November 2. The program is as follows:—

October 31

In the morning there will be a session on detergency, at which the following papers will be presented:—"The Production and Standardization of a Detergent Soil," by Jay C. Harris and Earl L. Brown, Monsanto Chemical Company; "An Approach to a More Realistic Cotton Detergency Test," by H. L. Sanders and J. M. Lambert, General Aniline & Film Corporation; "Principles of Performance Testing of Laundry Detergents," by T. H. Vaughn and H. R. Suter, Wyandotte Chemicals Corporation; "Choice and Application of a Detergency Test Method," by W. K. Griesinger and J. A. Nevison, Atlantic Refining Company; "Essential Elements in Synthetic Detergent Evaluation," by H. J. Wollner, American Conditioning House, and "A Comparison of Two Methods of Testing Detergents," by G. E. Barker and C. R. Kern, Atlas Powder Company.

At another session on detergency in the afternoon, the following papers will be heard:—"Displacement Series of the Metal Chelates of the Salts of Ethylene Diamine Tetra Acetic Acid," by R. Plumb and A. Martell, Clark University, and F. C. Bersworth, Bersworth Chemical Company; "Film Drainage: a Study of Flow Properties of Films of Detergent Solutions," by G. D. Miles, J. Ross and L. Shedlovsky, Colgate-Palmolive-Peet Company; "Synthetic Detergents in the Soap Industry," by H. C. Borghetty and C. A. Bergman, General Dyestuff Corporation; "The Relationship of Ultraviolet Induced Peroxide Formation to Rancidity Development in Soaps," by P. Bradford and J. H. Johnson, Swift & Co.; "Modifications of the Volumetric Evolution Method for Carbonates," by N. M. Schuck and W. Koester, Procter & Gamble Company; "Colorimetric Method for Water Soluble Silicates in Detergents," by W. J. Miller, Procter & Gamble Company, and "Mixtures of Soap and Synthetic Detergents," by L. H. Flett, O. M. Morgan and L. S. Hoyt, National Aniline Division, Allied Chemical & Dye Corporation.

In addition, a session on drying oils, also in the afternoon, will hear the following papers:—"The Selective Esterfication of Tall Oil," by L. H. Dunlap, L. V. Hassel and Jane L. Maxwell, Armstrong Cork Company; "The Autoxidation of Methyl Eleostearate," by R. R. Allen and F. A. Kummerow, Kansas State College; "Mechanisms Involved in the Polymerization of Conjugated and Non-Conjugated Linoleic Acid," by Szu Shiang Chang and F. A. Kummerow, Kansas State College; "Utilization of the Fruit of the Chinese Tallow Tree," by D. S. Bolley and Ralph H. McCormack, National Lead Company; "Some Factors Affecting the Set to Touch Time of Drying Oils," by Francis Scofield, National Paint, Varnish and Lacquer Association, and "Petroleum Dry Oils vs. Vege-

—*Continued on page 49*

Heads Dow Coating Sales

Floyd J. Gunn has been appointed head of coating sales of the plastics division of Dow Chemical Company, Midland, Mich. He has been with Dow since 1939 when he joined the solvents sales staff at the St. Louis office and recently has been handling plastics sales in the Chicago area. Mr. Gunn succeeds C. Benson Branch who was recently named manager of Dow's technical service and development division.

Paint Division Chairman

Charles R. Bragdon, manager of the special services department of the Interchemical Corporation, New York, has been elected chairman of the division of paint, varnish and plastics chemistry of the American Chemical Society. He succeeds Dr. Malcom M. Renfrew, director of chemical research for General Mills, Inc., who was named to the division's executive committee.

Trademark Law Conference In Washington November 1

The Coordinating Committee of the United States Trademark Association will hold a one-day meeting at the Willard hotel, Washington, D. C., on November 1 for a discussion of proposed amendments to the Lanham trademark act which may possibly be offered in Congress next session.

A large group is expected to attend the meeting, including members of the American Bar Association who are sponsoring a series of changes in the law, representative of the Toilet Goods Association, the National Association of Manufacturers and others.

The Lanham act was enacted by Congress a little over two years ago, being the first overall revision of the trademark laws in twenty years and has been in effect for little over one year. Among the changes in the law that has aroused considerable controversy are so-called amendments of the Department of Justice which tended to restrict the monopoly of trademark owners.

ABA is understood to be sponsoring amendments which would knock these provisions out of the law, or at least change them so as to restore the original rights to trademark owners. Another matter that has led to some controversy has been a provision in the law that allowed the Federal Trade Commission to intervene and pass upon certain trademark applications made to the Patent Office.

Senate Bill Would Allow Patent Grants Cancellation

The senate voted its approval on October 18 of S. 2128, which provides for the cancellation of certain royalty free licenses granted to the government by private holders of patents and rights during the war. The bill is designed to meet the following situation:—

During the war a number of private businesses as a patriotic contribution to the war effort gave to the government the right to use patents without fee and without compensation under certain royalty-free license agreements. Now they find that under the terms of many of these license agreements it is impossible to cancel them until the war has been officially declared at an end by Presidential proclamation or by act of Congress.

As passed, the bill gives to government officers authority to agree to cancel these royalty-free license agreements where the officer in question deems such action warranted by the equities existing by reason of changes in circumstances since the original granting of the license by the private firms. A clause in the bill giving the officers authority to modify or amend the agreements was eliminated by a committee amendment.

Fragrance Foundation Elects

The Fragrance Foundation elected J. S. Wiedhopf, president of Parfums Ciro, Inc., president at its annual meeting last week. Other officers named were:—Vice-president, Oscar Kolin, Helena Rubinstein, Inc.; secretary, A. L. van Ameringen, van Ameringen-Haebler, Inc., and treasurer, Samuel Rubin, Faberge, Inc.

NPVLA Completes Program for Meeting

The National Paint, Varnish and Lacquer Association has completed the program for its sixty-first annual meeting, to be held at the Haddon Hall hotel, Atlantic City, N. J., on October 31 to November 2. The day prior to the meeting will be devoted to sessions of the budget and finance, executive, national advisory, and general hospitality committees, and the program for the following three days is as follows:

October 31

The first general session will be called to order by President Joseph F. Battley at 9:30 a.m. After welcoming the delegates, Mr. Battley will present his annual report, as will E. A. Foy jr., treasurer; H. L. Wilkinson, chairman of the by-laws committee, and Frank J. Sampson, chairman of the nominating committee. The feature address will be delivered by Leo M. Cherne, executive secretary of the Research Institute of America, who will discuss "Another Year Ahead."

The annual meeting of the wholesale-distributors division will convene at 2 p.m., with George D. Gettemuller presiding. The following papers will be presented: "Let's Make the Paint Distributor Strong," by M. L. Herring; "Merchandising Through Dealers," by J. William Johnston; "Merchandising Through Our Retail Stores," by Isadore Buten; "Selling to Painters and Contractors," by Thomas Curry, and "Sales Promotion for Paint Distributors," by W. H. Goodwin. In addition, there will be reports by the division chairman and the membership committee, and election of the division vice-chairman and executive committee.

Also in the afternoon, there will be a meeting of the industrial finishes division, with Joseph A. Hager presiding, and a lacquer committee program, with Harry E. Stone presiding. The featured speaker at the industrial finishes session will be Dr. Samuel N. Stevens, president of Grinnell College, who will discuss "Basic Values in Making of a Salesman."

At the lacquer committee meeting, the following papers will be heard:—"Put Your Best Finish on Your Selling and Merchandising," by William C. Gordon jr., Curtis Publishing Company; "Ten Commandments of Safety in Lacquer Manufacturing," by Charles L. Jones, safety engineer; "Silicones as New Materials in Protective Coatings," by W. R. Collings, and "Management Problems in Human Relations," by Dr. David G. Powers, Queens College.

In addition, there will be a luncheon meeting of the water paint committee and a meeting of the roof coating division at 2 p.m.

November 1

The legislative committee will meet at a breakfast session, there will be a putty

—*Continued on page 78*

Cosmetic Chemists Plan December Meeting Program

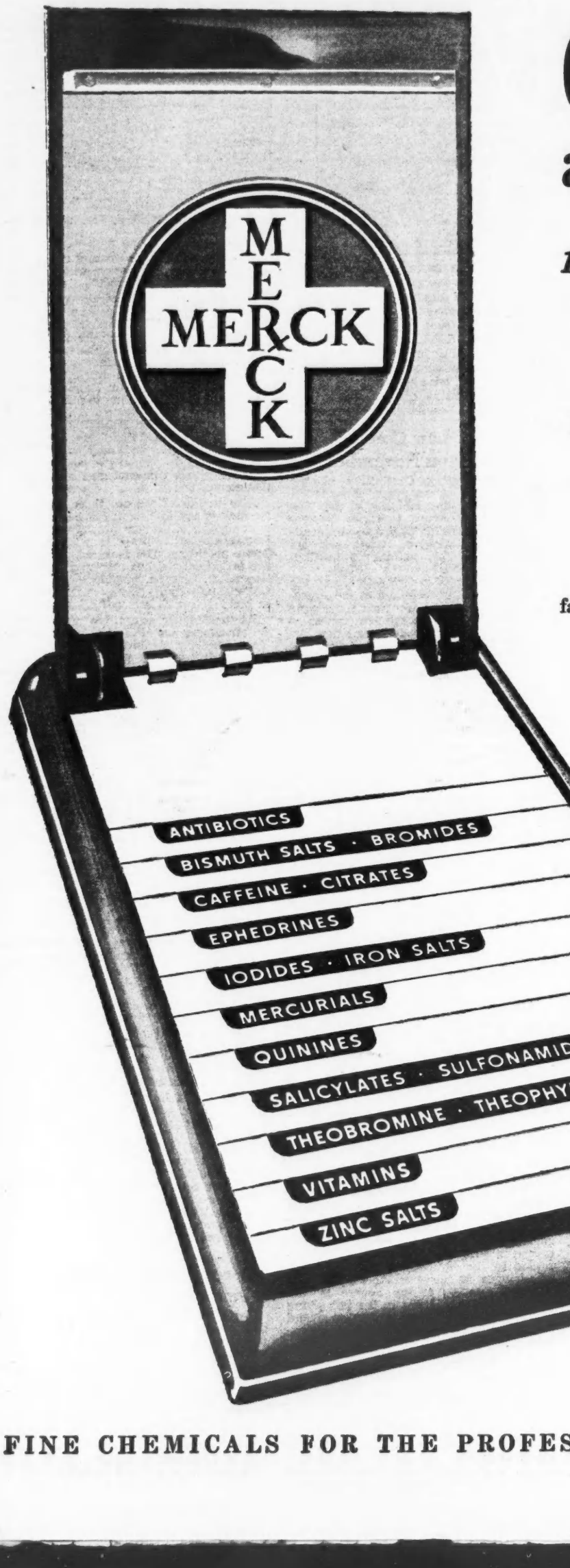
The Society of Cosmetic Chemists will meet at the Savoy-Plaza hotel, New York, on December 8. Included in the program will be a symposium on "Ammoniated Dentifrices," during which Drs. R. G. Kesel and C. J. Henschel, proponents of the low and high urea-containing ammoniated dentifrices, respectively, and Dr. D. A. Wallace, secretary of the council on dental therapeutics of the American Dental Association, will discuss various aspects of the situation.

"The Rationale of Odor Classification" will be discussed by E. C. Crocker, and Edward Sagarin will present a paper on "The Inherent Invalidity of all Current Systems of Odor Classifications." In addition, there will be papers on recent studies on the cutaneous and systemic effects of cold wave lotions, the application of radioisotopes to cosmetic testing, the development and properties of new type, nonionic emulsifiers, and the use of sorbitol in cosmetics.

Inter-American Trade Discussions Nov. 16-17

An analysis of the effect of currency devaluation on inter-American trade will feature a two-day conference in Washington November 16 and 17 under sponsorship of the United States Inter-American Council of Commerce and Production.

Conference sessions will take place in the Hall of Flags, Chamber of Commerce building, with a dinner meeting scheduled for the evening of November 16 and a luncheon the following noon. All meetings will be open to business, professional and government leaders interested in trade with Latin America.



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Current Market Quotations

Chemicals and Related Materials

October 21, 1949

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4. The figures in the two columns do not represent bid and asked prices nor a range over the week. They are the quotations prevailing on the date above, on the basis of differences in one or more of these factors:—Quantity, quality, locality, individual supplier's views.

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A

Acacia (see Gum, arabic).
Acenaphthene, m.p. below 92.5 C., dms., works lb. .40 - —
above 92.5 C, dms., works lb. .50 - —
Acetaldehyde, 99%, dms., c.l., works, lb. .11½- .12¼
l.c.l., works lb. .12 - .13
tanks, works lb. .09½- .10¼
Acetaldol (see Aldol).
Acetamide, CP, fib, dms lb. .65 - .75
tech., fib, dms lb. .38 - .43
Acetanilide, tech., bbls., c.l., dlvd. or frt. equald lb. .22 - .23½
l.c.l., ton lots lb. .23 - .24¼
smaller lots lb. .26 - .27½
USP, bbls., 2,000-lb. lots lb. .50 - —
smaller lots lb. .56 - —
Acetic anhydride, dms., c.l., frt. alld. E lb. .13 - —
l.c.l., frt. alld. E lb. .14½- —
tanks, frt. alld. E lb. .11½- —
Acetoacetanilide, bbls., dlvd lb. .67½- —
fib. dms., c.l., dlvd lb. .66½- —
l.c.l., dlvd lb. .67½- —
Acetoacetorthoanisidide, fib. dms., works, 500 lbs. or more lb. 1.50 - —
smaller lots, same basis lb. 1.75 - —
Acetoacetorthochloranilide, bbls., dlvd lb. 1.15 - —
fib. dms., c.l., works lb. 1.14 - —
l.c.l., works lb. 1.15 - —
Acetoacetorthotoluidide, bbls., dlvd lb. .90 - —
fib. dms., c.l., works lb. .71 - —
l.c.l. lb. .72 - .78
Acetone, CP, dms., c.l., dlvd lb. .09 - —
l.c.l., dlvd lb. .09½- .10
tanks, dlvd lb. .07½- —
Methyl (see M).
Acetonitrile, dms., c.l., works lb. .43 - —
l.c.l., works lb. .45 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.10 - 1.33
Acetophenone, cns., dms lb. 1.30 - 1.85
tech., l.c.l., dms., works lb. .75 - —
Acetoactoparaphenetidide, dms., 500 lbs. or more, works, lb. 1.63 - —
smaller lots, same basis lb. 1.90 - —
Acetyl chloride, cbys., works lb. .50 - .60
Acetyltributyl citrate, dms lb. .43 - .45
smaller pkgs lb. .48 - .54
Acetyltriethyl citrate, dms lb. .36 - .38
smaller pkgs lb. .41 - .47
Acid, abietic, dms., c.l., works lb. .07½- —
Acetic, com'l or redist., 28%, bbls. 100 lbs. 4.00 - —
56%, bbls 100 lbs. 7.00 - —
70%, bbls 100 lbs. 8.40 - —
80%, bbls 100 lbs. 9.40 - —
glacial, synthetic, CP, dms., works 100 lbs. 13.00 - —
USP, cbys., works 100 lbs. 15.50 - —
tech., dms., c.l., works 100 lbs. 9.00 - 9.50
l.c.l., works 100 lbs. 9.50 - 10.00
tanks, works 100 lbs. 7.50 - —

Acetic acid price ranges above are for 40 bbls. or more and for smaller lots. Carboys and cases are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, bbls., makers, primary distrib., point of ship't, 100-lb. lots lb. .53 - —
standard, fine, cryst., gran., (30-40 mesh) powd. (60 mesh), bbls. same basis, lb. .48 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Aconitic, 5,000 lbs. 1 shipt., dms. lb. .49 - —
smaller lots, dms lb. .49½- .54½
Adipic, fib, dms., works lb. .26½- —
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.75
Anthranilic, resub., bbls lb. 2.10 - —
tech., bbls. lb. 1.05 - 1.10
Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs lb. .20 - .22
Ascorbic, USP, dms., 500-kilo lots, kilo. 24.50 - —
25-50 kilo lots kilo. 25.00 - —
10-kilo lots kilo. 25.35 - —
5-kilo lots kilo. 25.70 - —
bots., kilo lots kilo. 26.41 - —
500 grams kilo. 27.47 - —
Battery, cbys., c.l., E. works, 100 lbs. 1.60 - 1.75
l.c.l., E. works 100 lbs. 2.15 - 2.85
Benzoic, tech., bbls., dms., 100 lbs. or more lb. .45 - —
USP, bbls., dms., 100 lbs. up lb. .54 - —
Betaoxynaphthoic, bbls., works lb. 1.23 - —
Boric, tech., 99½%, cryst., bgs., c.l., works ton. 115.25 - —
ton lots, ex whse, N. Y. or Chi ton. 160.00 - —
less ton lots, same basis, ton. 165.00 - —
bbls., c.l., works ton. 135.25 - —
ton lots, ex whse., N. Y. or Chi. ton. 180.00 - —
less ton lots, same basis, ton. 185.00 - —
bulk, c.l., works ton. 111.75 - —
gran., bgs., c.l., works ton. 90.25 - —
ton lots, ex whse., N. Y. or Chi. ton. 135.00 - —
less ton lots, same basis, ton. 140.00 - —
bbls, c.l., works ton. 110.25 - —
ton lots, ex whse., N. Y. or Chi. ton. 155.00 - —
less ton lots, same basis, ton. 160.00 - —
bulk, c.l., works ton. 86.75 - —
powd., bgs., c.l., works ton. 95.25 - —
ton lots, ex whse., N. Y. or Chi. ton. 140.00 - —
Acid, boric, tech., 99½%, powd., less ton lots, same basis ton. 145.00 - —
bbls., c.l., works ton. 115.25 - —
ton lots, ex whse., N. Y. or Chi ton. 160.00 - —
less ton lots, same basis, ton. 165.00 - —
bulk, c.l., works ton. 91.75 - —
USP $25 per ton higher.
Broener's, bbls lb. 1.34 - —
Butyric, 99%, dms., c.l., works lb. .34½- —
l.c.l., works lb. .35 - —
tankcars, works lb. .33 - —
Cacodylic, bots. lb. 12.00 - 13.00
Camphoric, natural, dms lb. 5.00 - 5.65
synth., dms lb. 4.00 - 4.75
Capric, tech., dms lb. .50 - .50¼
Caprylic, 99%, dms lb. .50 - .50½
Castor oil, split, dms lb. .21 - .22
Chlorosuiphonic, dms., c.l., works, lb. .03 - —
l.c.l., works lb. .03½- .04½
tanks, works lb. .02½- —
Chromic, 99½-99¾%, dms., c.l. works lb. .25½- —
l.c.l., works lb. .26 - .27
USP, 5 lb. bots. lb. .82 - —
Cinnamic, refd., bots lb. 2.50 - 4.00
Citric, anhyd., gran., fine gran., dms., c.l., lb. .26½- —
10,000 lbs., 1 ship't lb. .27 - —
smaller lots lb. .27½- —
kgs. lb. .28½- —
Anhydrous citric acid powder, ½c. per lb. higher.
USP, cryst., dms., c.l. lb. .27½- —
10,000 lbs., 1 ship't lb. .28 - —
smaller lots lb. .28½- —
kgs. lb. .29½- —
gran., fine gran., dms., c.l. lb. .24½- —
10,000 lbs., 1 ship't lb. .25 - —
smaller lots lb. .25½- —
kgs. lb. .26½- —
USP citric acid powder ½c. per lb. higher.
Cleve's, mixed, bbls lb. .65 - .66
Coconut oil, dist., dms lb. .23¼- .24¼
double dist., dms lb. .25¼- .25¾
Corn oil, s.d., dms lb. .10¼- .11¼
Cottonseed oil, dist., dms lb. .10¼- .11¼
Cresylic, dom., coaltar, 50% above 207°C, non-ret. dms., c.l., frt. equald gal. .91 - —
l.c.l., non-ret. dms., same basis gal. .94 - —
ret. dms. c.l., same basis lb. .88 - —
l.c.l., same basis lb. .91 - —
tanks, same basis gal. .80 - —
50% at 204° to 207° C, c.l., non-ret. dms., same basis gal. .96 - —
Acid, cresylic, dom., coaltar, 50% at 204°-207° C, non-ret. dms., l.c.l., same basis. gal. .99 - —
ret. dms., c.l., same basis. lb. .93 - —
l.c.l., same basis lb. .96 - —
tanks, same basis gal. .85 - —
Petroleum, 179° C to 198° C, San Francisco and Los Angeles, tanks gal. 1.00 - —
193° to 213° C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .95½- —
l.c.l., same basis gal. .97½- .99½
tanks, same basis gal. .85 - —
211°C to 236°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .77 - —
l.c.l., same basis gal. .79 - .81
tanks, same basis gal. .665 - —
237°C to 265°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .72½- —
l.c.l., same basis gal. .74½- .76½
tanks, same basis gal. .62 - —
Crotonic, fib dms., works lb. .29 - —
Cyanoacetic, tech., bbls lb. .50 - 1.25
Desoxycholic lb. 17.00 - 22.00
Dichlorophenoxyacetic, (see "D", 2, 4-D)
Diethylbarbituric (see Barbital).
Diglycolic, bgs., works lb. .22 - —
Ethylhexoic, dms., c.l., works lb. .31 - —
l.c.l., works lb. .31½- —
tanks, works lb. .29½- —
F, bbls., works lb. 1.87 - 1.93
Folic, bots., fib. ctns., kilo or more gram. 2.00 - —
Formic, 85%, cbys., c.l., works lb. .13 - .13½
l.c.l., works lb. .13½- .14
90%, cbys., c.l., works lb. .13½- .14
l.c.l., works lb. .14 - .14½
Fumaric, tech., bbls., dms lb. .30 - .31
Gallic, NF V, bbls., 1,000-lb. lots lb. 1.60 - —
smaller lots lb. 1.63 - 1.65
technical, bbls., 1,000-lb. lots lb. 1.43 - —
smaller lots lb. 1.46 - 1.48
Gamma, bbls lb. 1.20 - —
Gluconic, tech., 50%, bots lb. .23 - .31
dms lb. .14 - —
kgs. lb. .16 - —
Glutamic, laevo, 99%, fiber dms., 100 lb lots, works lb. 2.35 - 2.40
25 lb. lots lb. 2.45 - —
Glycerophosphoric, 35%, dms., works lb. 2.15 - 2.25
Glycolic (see Acid, hydroxyacetic).
H, 100% basis, bbls., works lb. .73½- —
Hydriodic, 45-47%, cbys lb. 2.65 - —
57%, cbys lb. 2.83 - 2.85
Hydrobromic, medicinal, 48%, cbys., dlvd. E lb. .38 - —
tech., 48%, cbys., dlvd. E lb. .34 - .36
34%, cbys., dlvd. E lb. .35 - .37
Hydrochloric (see Acid, muriatic).
Hydrocyanic, cyls., works lb. 1.00 - —
dilute, NF, 2%, 5-lb. bots lb. .35 - —
Acid, hydrofluoric, anhyd., cyls., works lb. .19 - .19½
tanks, works lb. .16½- —
30%, wood or rubber, dms., works lb. .08½- .09
70%, steel dms., works lb. .143 - .148
Hydrofluosilicic, 30-35%, bbls lb. .08 - .09
Hydroxyacetic, tech., 70%, bbls., non-return., Phila lb. .084 - —
tanks, Belle, W. Va., 100% basis lb. .095 - —
Hypophosphorus, USP, dms lb. .75 - .77
J, bbls., works, 100% basis lb. 2.50 - —
L, bbls., works lb. .95 - —
Lactic, edible, 50%, bbls., 20 or more lb. .16 - .18
smaller lots lb. .17 - .19
80%, bbls., 20 bbls. or more, lb. .285 - .33
plastic grade, 50%, bbls., 20 or more lb. .19¾- —
10 or less lb. .20¾- —
80%, bbls., 5 or less lb. .3495- .3545
tech., 22%, bbls., r.l., works, 100 lbs. 5.80 - —
l.c.l., works 100 lbs. 6.20 - —
cbys., works 100 lbs. 6.70 - —
44%, bbls., c.l., works 100 lbs. 10.95 - —
l.c.l., bbls., works 100 lbs. 11.35 - —
cbys., works 100 lbs. 11.85 - —
NF, 85%, cbys lb. .69 - .72
Laurent's, bbls lb. .87 - —
Lauric, dist., 83-90%, dms lb. .28 - .28½
60%, dms. lb. .25 - .25½
Linseed oil, reg. dist., dms lb. .2210- .2230
water-white, dms lb. .2510- .2610
Maleic, powd., dms lb. .30 - .31
Anhydride (see M).
Malic, dms. lb. .47 - —
Mandelic, NF, dms., 1,000-lb. lots, lb. 1.85 - —
smaller lots lb. 1.90 - 2.10
Mixed, tanks, nitric unit lb. .05 - .06
sulphuric unit lb. .0085- .009
Molybdic, dms., 85%-92%, works lb. .92 - .93
Monochloroacetic, purified, flake, 99%, dms lb. .22½- .23¼
tech., flake, 96-97%, bbls lb. .18 - .19
Muriatic, 18°, cbys., c.l., E. works 100 lbs. 1.65 - —
l.c.l., E. works 100 lbs. 2.05 - 2.75
tanks, E. works ton. 18.00 - —
20°, cbys., c.l., E. works 100 lbs. 1.90 - —
tanks, E. works ton. 20.00 - —
22°, cbys., c.l., E. works 100 lbs. 2.40 - —
tanks, E. works ton. 25.00 - —
CP, USP, consumers, cbys., extra, c.l., frt. equald lb. .07¾- —
l.c.l., same basis lb. .09¼- .09¾
5 pint bottles extra, cs., c.l., frt. equald lb. .12¾ - —
l.c.l., same basis lb. .14¼ - .15¼
Acid, muriatic, CP, USP, prices to dealers 1½c. per pound less.
Myristic, dist., dms lb. .45 - Nom.
Naphthenic, 220-230 acidity, dms., works lb. .15 - —
tanks, works lb. .12 - —
230-240 acidity, dms., works lb. .22 - —
tanks, works lb. .19 - —
Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)
Naphthol (1)-5-sulphonic see Acid, L).
Naphthol(1)-5-sulphonic,3-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma)
(5)-7-Sulphonic,2-amino (see Acid, J).
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed)
Naphthylamine(1)-5-sulphonic (see Acid, Laurent's).
(2)-6-sulphonic (see Acid, Broener's).
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).
Neville and Winther's, dms lb. .88 - —
Nicotinic, USP, dms., works, kilo. 8.00 - 8.30
Nicotinic amide (see Nicotinamide).
Nitric, 36° cbys., c.l., E. works, 100 lbs. 5.00 - —
l.c.l., E. works 100 lbs. 5.40 - 6.10
38°, cbys. c.l., E. works 100 lbs. 5.50 - —
l.c.l., E. works 100 lbs. 5.90 - 6.60
40°, cbys., c.l., E. works 100 lbs. 6.00 - 6.50
l.c.l., E. works 100 lbs. 6.40 - 7.10
42°, cbys., c.l., E. works 100 lbs. 6.50 - 7.00
l.c.l., E. works 100 lbs. 6.90 - 7.60
CP, NF, consumers, cbys., extra, c.l., frt. equald lb. .11¼- —
l.c.l., same basis lb. .13 - .13½
6 pint bottles extra, cs., c.l., frt. equald lb. .15½- —
l.c.l., same basis lb. .17 - .18
Acid, muriatic, CP, USP, prices to dealers 1½c. per pound less.
Octoic (see Acid, ethylhexoic).
Oleic (see Oil, red).
Oleum (see Acid, sulphuric, fuming).
Orthocresotinic, dms., ton lots, works lb. .62 - —
smaller lots, works lb. .64 - —
Oxalic, bbls., c.l., works lb. .14¼- —
10,000 lbs., works lb. .14½- —
smaller lots, works lb. .15¼- .15½
Palm oil, white, dist., dms lb. .21¼ - 21¾
Para-aminobenzoic, purified, dms., 100 lbs., works lb. 3.45 - 3.75
smaller lots, same basis lb. 3.60 - 3.85
technical, dms lb. 1.84 - —
Para-aminosalicylic, dms., 1,000-lb. lots or more lb. 10.00 - —
smaller lots lb. 10.05 - 11.00
Paramethylphenylcinchonic (see Neocinchophen).
Paranitrobenzoic cns. lb. .87 - —
Paratoluidinmetasulphonic, bbls., works lb. .92 - .95
Peanut oil, s.d., dms lb. .12¾- .13¾
Perchloric, 60%, cbys., works lb. .58 - .62
70-72%, cbys., works lb. .61 - .66
Phenylacetic, bots lb. 1.51 - 1.7.
Phenylcinchonic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	neut.	neutral.
ammo.	ammonia	djns.	demijohns	NF	National Formulary
amorph.	amorphous	divd.	delivered		
anhyd.	anhydrous	dms.	drums	nom.	nominal
a.p.a.	available phosphoric acid	dom.	domestic	No.	number
		E.	east	ord.	ordinary
artif.	artificial	e.p.	end point	oz.	ounce
ASTM.	American Society for Testing Materials	equald.	equalized	Pac.	Pacific
		F.	fahrenheit	pf.	proof
Be.	Baume	ferment.	fermentation	phos.	phosphate
bgs.	bags	ffa.	free fatty acid	photo.	photographic
bbls.	barrels	ffc.	free from chlorine	pkgs.	packages
bls.	bales			powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	F.P.A.	free of prussic acid	pt.	point
				pulv.	pulverized
b.r.	boiling range	frt.	freight	purif.	purified
bxs.	boxes	fus.	fused	redist.	redistilled
C.	centigrade	gal.	gallon	refd.	refined
cbys.	carboys	gran.	granular	refy.	refinery
CD	completely denatured	grd.	ground	reg.	regular
		i.&a.	iron and aluminum	resub.	resublimed
c.i.f.	cost, insurance, freight			ret.	returnable
		i.b.p.	initial boiling point	SD	specially denatured
cks.	casks			s.d	single distilled
c.l.	car lots	imp.	imported	S. E.	southeast
cns.	cans	incl.	included	secs.	seconds
col.	color	indust.	industrial	s.g.	specific gravity
com'l	commercial			ship't	shipment
conc.	concentrated	kgs.	kegs	solut.	solution
CP	chemically pure	lacq.	lacquer	s.u.	standard unit
cps.	centipoises	lb.	pound	synth.	synthetic
cryst.	crystal	l.c.l.	less than car lots	tech.	technical
cs.	cases	liq.	liquid	USP	U. S. Pharmacopoeia
ctns.	cartons	m.a.p.	mixed aniline point	vis.	viscosity
cyls.	cylinders			VM&P	varnish makers & painters
dbl.	double	min.	minimum		
denat.	denatured	m.p.	melting point	W	west
dest.-dist.	destructive-distilled	N.	nitrogen	w.w.	water white
		nat.	natural	whse.	warehouse
dextro.	dextrorotatory				
dist.	distilled				

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown, gives the price of 2,000 pounds of the material

Acid, Phosphoric—Alphanitronaphthalene

Acid, phosphoric, food grade, 75%, chys., c.l., works, frt. equald. 100 lbs. 6.50 - —
l.c.l., works, frt. alld. 100 lbs. 7.50 - —
tanks, works, frt. equald. 100 lbs. 4.50 - —
NF, 85%, chys., c.l. lb. .10½- —
For shipments in chys., add handling charges.
Picramic, ngs. lb. .65 - .70
Picric, tech., bbls. lb. .32 - .33
NF, bbls. lb. .42 - —
Propionic, nat., dms., works lb. .18 - —
tanks, works lb. .17 - —
synth., pure, dms., works lb. .22 - —
tanks, works lb. .21 - —
Pyrogallic, tech., bbls. lb. No prices.
NF, cryst., dms. lb. 2.95 - 3.18
resub., dms. lb 3.45 - 3.60
Pyroligneous, dms. incl., l.c.l., ex whse gal. .41 - —
Ricinoleate (see Acid, castor oil, split).
S, bbls., works lb. 2.97 - 3.00
Salicylic, tech., bbls., c.l. lb. .31 - —
smaller lots lb. .38 - —
USP, cryst., bbls., c.l. lb. .40 - —
smaller lots lb. .50 - —
powder, bbls., c.l. lb. .45 - —
smaller lots lb. .55 - —
Sebacic, purif., dms., c.l., works, lb. .47 - —
l.c.l., works lb. .49 - .53
Soybean oil, single dist., dms. lb. .11¾- .12¾
double dist., dms. lb. .12¾- .13¾
Stearic, double pressed, bgs. lb. .13¾- .14¾
single pressed, bgs. lb. .13¼- .14¼
triple pressed, bgs. lb. .16 - .17
Succinic, bbls., cryst., purified, works lb. .90 - —
tech., bbls., works lb. .65 - .75
Sulphanilic, tech., dms., works lb. .17 - —
Sulphuric, 60° Be, chys., c.l., E. works. 100 lbs. 1.40 - —
l.c.l., E. works. 100 lbs. 1.80 - 2.50
tanks, E. works. ton. 13.75 - —
66°Be, chys., c.l., E. works. 100 lbs. 1.65 - —
l.c.l., E. works. 100 lbs. 2.05 - 2.75
tanks, E. works. ton. 17.00 - —
98%, tanks, E. works. ton. 18.00 - —
CP, NF, consumers, chys., extra, c.l., works, frt. equald. lb. .07¾- —
l.c.l., same basis. lb. .09¼- .09¾
5 pt. bottles extra, cs., c.l., works, frt. equald. lb. .11¼- —
l.c.l., same basis. lb. .12¾- .13¾
fuming, 20%, tanks, E works. ton. 19.00 - —
Tallow, dist., dms. lb. .09½- .10½
Tannic, tech., 60-62%, dms. lb. .68 - .69
70-72%, dms. lb. .80 - .85
75-76%, dms. lb. .86 - .90
USP, fluffy, bbls., 1,000-lb. lots. lb. 1.45 - —
smaller lots lb. 1.47 - 1.53
powder, bbls., 1,000-lb. lots lb. 1.35 - —
smaller lots lb. 1.30 - 1.50
Tartaric, USP, dom., 230, 250 lb. dms., 10,000 lbs., 1 ship't. lb. .34½- —
smaller lots. lb. .35 - —
100-lb. dms. lb. .36 - —
small, dms. lb. .38 - .40
imported, kgs. lb. .33 - .35
Thioglycolic, refined, bbls., chys., basis 100% lb. 1.60 - 1.80
tech., bbls., chys., basis 100% lb. 1.40 - —
Tobias, bbls. lb. .65 - —
Trichloroacetic, bots. lb. 2.00 - 2.50
Toluenesulphonic, dms., works, l.c.l. lb. .20 - —
c.l., tanks lb. .18½- —
Tungstic, tech., kgs., works lb. 2.20 - 2.40
Aconite leaves, bls. lb. .55 - .60
Root, bbls. lb. .60 - .70
Aconitine, amorph., mild, bots. oz. 27.50 - 32.50
cryst., potent, bots. oz. 85.00 - —
Acrolein, dms., works lb. .50 - —
Acrylonitrile, dms., c.l., works lb. .36½- —
l.c.l., works lb. .37 - .38
tanks, works lb. .35 - —
Adeps lanae (see Lanolin)
Adonis vernalis herb, bls. lb. .35 - .40
Agar, USP, Kobe, No. 1 strip lb. 2.35 - 2.60
Agaric, white, bls. lb. 1.50 - 1.75
Agrimony herb, bls. lb. .30 - .35
Alanine, dextro-laevo, dms., works, lb. 8.50 - 11.00
Albumen (egg), edible, flake, bbls lb. 2.05 - 2.10
powd., bbls. lb. 2.10 - 2.15
tech., cryst., bbls. lb. .98 - 1.05
Albumin, blood, dark (see Blood, dried, soluble)
light, dms., l.c.l. lb. .67½- .72½
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd. lb. .31½- —
works lb. .32½- —
l.c.l., dlvd. lb. .32½- —
works lb. .33 - —
tanks, dlvd. lb. .30 - —
works lb. .31 - —
Amyl, ex pentane, dms., c.l., frt. alld. E. of Miss. lb. .16 - —
l.c.l., frt. alld. E. of Miss lb. .17 - —
tanks, frt. alld. E. of Miss. lb. .15 - —
(see also Fusel oil, ref.)
Amyl, fermentation, refined, 126-132°C, dms., c.l., dlvd. lb. .33½- —
l.c.l., dlvd. lb. .34½- —
tanks, dlvd. lb. .32 - —
128-132°C, dms., l.c.l., dlvd. lb. .36 - —
ACS grade, dms., l.c.l., dlvd. lb. .42 - —
Benzyl, dms. lb. 60 - .88
tech., dms., works, frt. equald. lb. .45 - .50
Butyl, normal, ferment, Ill., Ind. prod., dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld. lb. .15 - —
tanks, frt. alld. lb. .12½- —
tankwagon, frt. alld. lb. .13 - —
other production, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld. lb. .15 - —
tanks, frt. alld. lb. .12½- —
synthetic, normal, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld. lb. .15 - —
tanks, frt. alld. lb. .12½- —
secondary, dms., c.l., frt. alld. lb. .11½- —
l.c.l., dlvd., frt. alld. lb. .12 - —
tanks, dlvd., frt. alld. lb. .10 - —
tertiary, dms., c.l., frt. alld. lb. .13½- —
l.c.l., frt. alld. lb. .14 - —
tanks, frt. alld. lb. .12 - —
Capryl, dms., c.l., works lb. .26 - —
l.c.l. works lb. .27 - —
tanks, works lb. .24½- —
Cetyl, dom., CP., fiber ctns., 1,000 lbs. lb. 1.50 - —
smaller lots lb 1.55 - —
Cinnamic, bots lb. 2.75 - 3.35
Denatured, CD12, CD13, CD14, dms., dlvd. E. of Miss. R. gal. .42½- —
l.c.l., dlvd. E. of Miss. R. gal. .46½- .51¼
tanks, dlvd. E. of Miss. R gal. .32½- —
Tankcar sales require written authorization by Alcohol Tax Unit.
SD1, 190 pf., dms., c.l., dlvd. E. of Miss. R. gal. .41½- —
l.c.l., same basis gal. .45½- .50¼
tanks, same basis gal. .31½- —
SD2B, dms., c.l., E. of Miss. R. gal. .40 - —
l.c.l., same basis gal. .44 - .49
tanks, same basis gal. .30 - —
SD23H, dms., c.l., dlvd. E. of Miss. R gal. .43 - —
l.c.l., same basis gal. .47 - .52
tanks, same basis gal. .33 - —
SD29, denatured, with acetaldehyde, dms., c.l., dlvd. E. of Miss. R. gal. .40½- —
l.c.l., same basis gal. .44½- .49¼
tanks, same basis fal. .30½- —
When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.
Proprietary solvent, dms., c.l., dlvd. E. Miss. R gal. .42½- —
l.c.l., same basis gal. .46½- .51¼
tanks, same basis gal. .32½- —
Tankcar sales require written authorization by Alcohol Tax Unit.
Special solvent (see Alcohol, denat., proprietary).
Diacetone, acetone free, dms., c.l., dlvd. lb. .13½- —
l.c.l., dlvd. lb. .14 - —
tanks, dlvd. lb. .12 - —
tech., dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd. lb. .13½- —
tanks, dlvd. lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. Miss. R. gal. 17.49 - —
l.c.l., same basis gal. 17.53 - 17.58
tanks, same basis gal. 17.39 - —
tax free, dms., c.l., dlvd. E. Miss. R. gal. .39 - —
l.c.l., same basis gal. .43 - .48
tanks, same basis gal. .29 - —
absolute, 200 pf., tax paid, dms., c.l., same basis gal. 18.44 - —
l.c.l., same basis gal. 18.48 - 18.53
tanks, same basis gal. 18.34 - —
Ethylhexyl, dms., c.l., works lb. .30 - —
l.c.l., same basis lb. .30½- —
tanks, same basis lb. .28½- —
Furfuryl, tech., cns., works lb. .30 - —
dms., c.l., works lb. .21½- —
l.c.l., works lb. .23 - —
tanks, works lb. .18 - —
Isoamyl (see Alcohol, amyl, refined, fermentation).
Isobutyl, dms., c.l., dlvd. lb. .14 - —
l.c.l., works lb. .15 - —
tanks, dlvd. lb. .12½- —
Iso-octyl, dms., c.l., works lb. .29½- —
l.c.l., works lb. .29¾- —
tanks, works lb. .27¾- —
Isopropyl, refd., 91%, dms. incl., c.l., dlvd. gal. .38 - —
l.c.l., dlvd. gal. .41 - —
tanks, dlvd. gal. .28 - —
95%, dms. incl., c.l., dlvd. gal. .39½- —
l.c.l., dlvd. gal. .42½- —
tanks, dlvd. gal. .29½- —
NF, 99%, dms. incl., c.l., dlvd. gal. .41 - —
l.c.l., dlvd. gal. .44 - —
tanks, dlvd. gal. .31 - —
Methyl (see Metnanol).
Methylamyl (see carbinol, methylisobutyl).
Nonyl (see Trimethylhexonal).
Octyl, perfumer's grade, bots. lb. 2.15 - 3.25
technical (see Octanol normal).
Pantothenyl (see Panthenol).
Phenylethyl, cns. lb. 1.40 - 1.70
Polyvinyl, type A, fiber-pack, Niagara Falls lb. .65 - .70
type B, fiber-pack, same basis lb. .60 - .66
Propyl, normal, dms., c.l., dlvd. lb. .09½- —
works lb. .08 - —
l.c.l., dlvd. lb. .10 - —
works lb. .08½- —
tanks, dlvd. lb. .08 - —
works lb. 06½- —
Salicyl (see Saligenin).
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia. lb. .47 - —
dms., c.l., Waverly, N. Y. lb. .40 - —
l.c.l., same basis lb. .44 - —
tanks, Niagara Falls, N. Y. lb. .36 - —
Aldol, 95%, dms., works lb. .15 - .16
denaturing grade, dms. gal. 1.33 - 1.48
Aletris root, bgs. lb. 1.50 - 1.60
Algin, bbls., fib. dms. lb. .76 - 1.00
Alizarin (see Red, alizarin)
Alkanet root, bgs. lb. .40 - .45
Allspice, Jamaica (see Pimento).
Mexican, bgs. lb. .19 - .19¼
Allyl bromide, coys., 5,000 lbs., works. lb. .99 - —
smaller lots, works lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd. lb. .16½- —
l.c.l., dlvd. lb. .17 - —
tanks, dlvd. lb. .15 - —
Aloe, Cape, cs. lb. .21 - .23
Curacao, kgs. lb. .35 - .36
Socotrine, kgs. lb. .35 - .36
Aloin, USP, bbls., dms., kgs. lb. 3.75 - 4.05
Alphacellulose, bgs., c.l., works lb. .04 - .15
Alphanaphthol, bbls. lb. .70 - —
Alphanaphthylamine, bbls lb. .41 - .42
Alphanaphthylthiourea, 93-98%, fib. dms., works, frt. alld. lb. 2.00 - 2.40
Alphanitronaphthalene, bbls. lb. .34 - —

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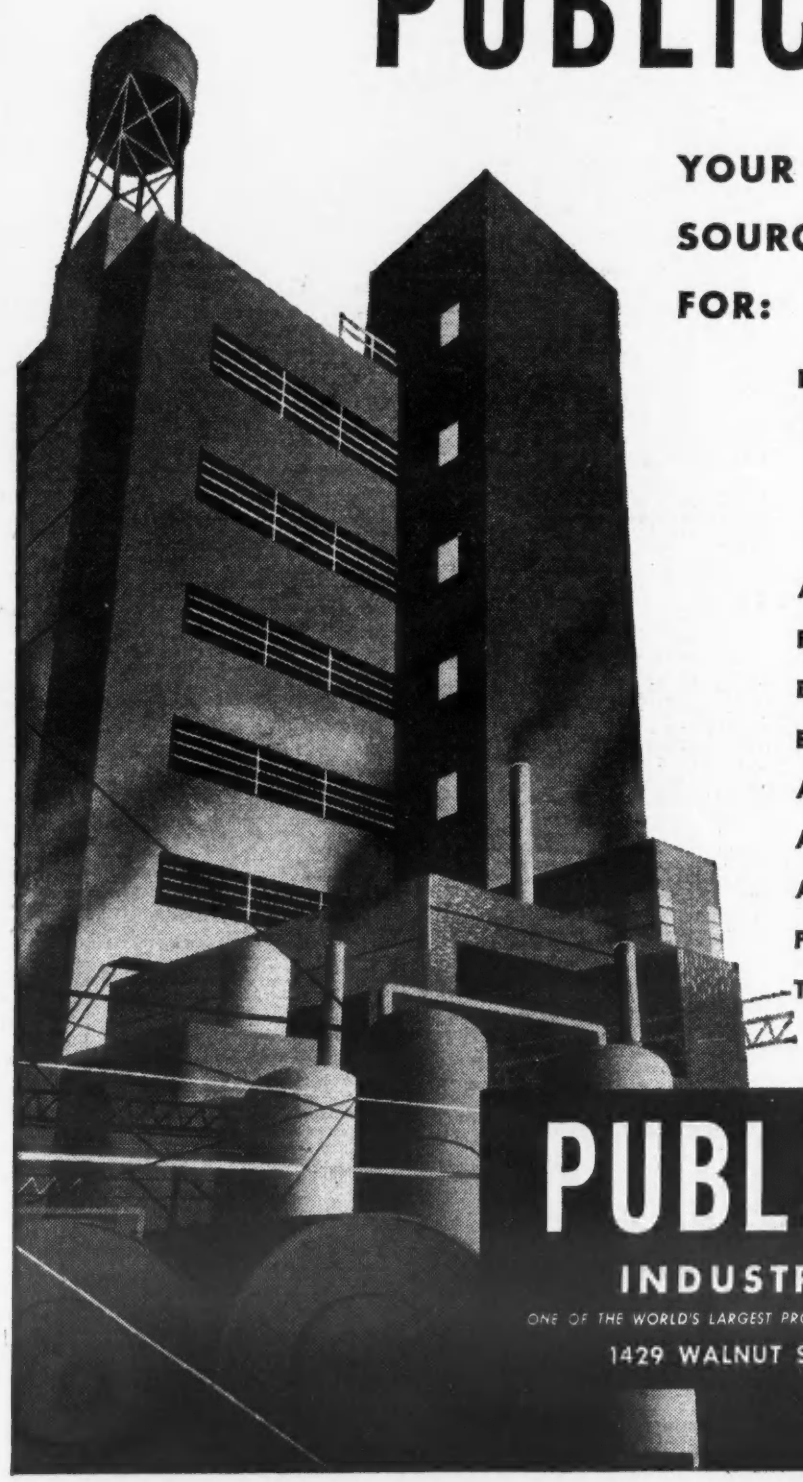

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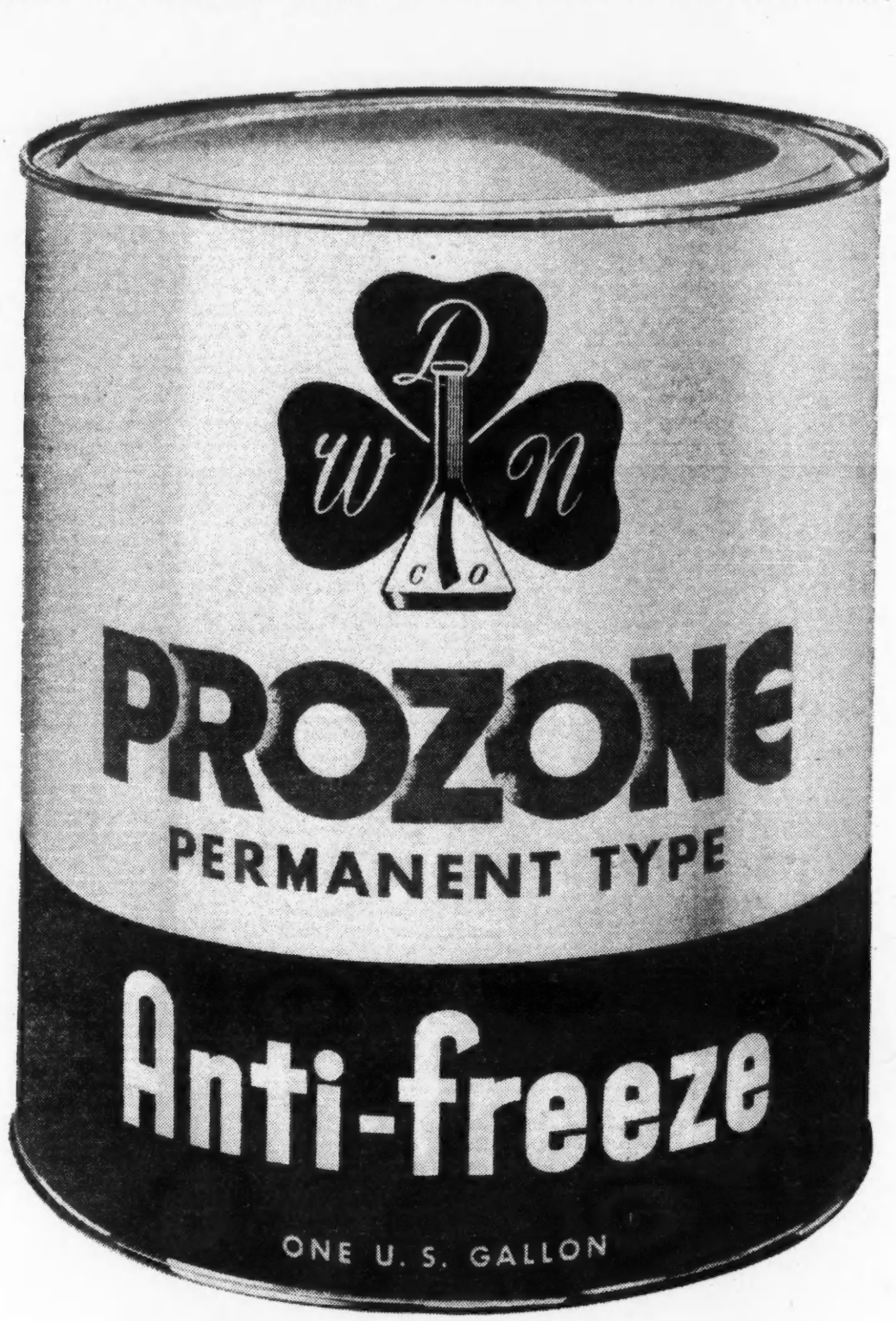

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Alphapicoline—Antimony Oxide

Alphapicoline, ret. dms., c.l., works, frt. equald lb. .27 - .30
l.c.l., works, frt. equald lb. .29½ - .30
Alphapinene, tanks, South, works gal. No prices.
Alphaterpineol, dms., l.c.l., dlvd. E. lb. .17 - —
Alphatocopherol, bots. kilo.450.00 - —
Acetate, bots. kilo.450.00 - —
Althea root, NF, peeled, bls lb. .30 - .40
Alum, ammonia, gran., bbls., works. 100 lbs 3.80 - —
lump, bbls., works 100 lbs. 4.05 - —
powd., bbls., works 100 lbs. 4.20 - —
USP, burnt, bbls. lb. .20 - .21
hydrous, bbls. lb. .07¾ - .08
Potash, gran., bbls., works 100 lbs. 4.05 - —
lump, bbls., works 100 lbs. 4.30 - —
powd., bbls., works 100 lbs. 4.45 - —
USP, hydrous, bbls. lb. .07¾ - .08
Potash-chrome, dms lb. .17 - —
Soda, bbls., c.l., works 100 lbs. 3.25 - —
l.c.l., dlvd 100 lbs. 4.25 5.00
Alumina, calcined, bgs., c.l., works lb. .03½ - .05
crystalline (see Aluminum oxide).
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works lb. .11 - —
20%, bbls., l.c.l., works lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., dlvd lb. .10 - —
l.c.l., dlvd. lb. .10½ - —
cryst., com'l, dms., c.l., works. lb. .0650 - —
l.c.l., works lb. .0690 - —
NF, gran., dms., works lb. .27 - .28
solution, 32°, cbys., c.l., works lb. .03¼ - —
l.c.l., works lb. .04 - —
Fluoride, tech., anhyd., bbls., c.l., works lb. .10 - —
l.c.l., works lb. .11 - .13
Aluminum formate, basic solution, cbys., c.l lb. .09½ - —
l.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton.50.00 -54.00
l.c.l., works ton.72.00 -86.00
light, bgs., dlvd lb .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .21¼ - —
contract, works lb. .20¼ - —
9-9½% Al_2O_3, fib. dms., works lb. .18¼ - —
contract, works lb. .17¼ - —
dried, USP XII, fib. dms., works. lb. .79½ - —
contract, works lb. 76½ - —
powder, tech. (see Aluminum hydrate).
Laurate, precip., bbls lb. .42 - —
Linoleate, solid, dms., frt. alld. lb. .48 - —
Metal, 98-99%, ingots, 10,000 lbs. lb. .17 - —
pigs, 10,000 lbs lb. .16 - —
Naphthenate, liquid, 1.7%, frt. alld lb. .24½ - .25
Oleate, dms., precip lb. .35¼ - —
Oxide, amorphous (see Alumina, calcined), crystalline, flour, classified, 8-240 mesh, dms., frt. alld lb. .14 - .15
kgs., ton, frt. alld lb. .12½ - —
smaller lots, frt. alld lb. .13 - .15
280-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt. alld lb. .31 - —
500 mesh, dms., frt. alld lb. .35 - .37
kgs., frt. alld lb. .34 - —
Aluminum oxide, crystalline, flour, classified, 600 mesh, dms., frt alld lb. .51 - .53
kgs., frt. alld lb. .50 - —
optical, floated, kgs., dlvd lb. .36 - .86
unclassified, dms., frt. alld. lb. .16 - .17
kgs., frt. alld lb. .15 - —
high-purity, alpha or gamma, ultrafine, dms., works lb.13.50 - —
jars, works lb.15.00 -17.00

Aluminum oxide flour prices W. of Denver ¾c. per lb. higher.

Paste, lining, extra fine, dms lb. .58 - —
standard, dms lb. .39½ - —
Powder, lining, extra fine, dms lb. .96 - —
standard, dms lb. .64½ - —
rubber comp., dms lb. .48½ - —
unpolished, standard, dms lb. .44½ - —
varnish, standard, dms lb. .49 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. drm., 1½c. per lb. for 50-lb. drm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 or over.

Resinate, precip., dms., frt. alld. lb. .24 - —
Stearate, dibasic, ctns., c.l lb. .30 - —
l.c.l. lb. .31 - —
monobasic, ctns., c.l lb. .30 - —
l.c.l. lb. .31 - —
tribasic, ctns., c.l lb. .29 - —
l.c.l. lb. .31 - —
Aluminum sulphate, com'l, bgs., c.l., works, equald 100 lbs. 1.50 - —
l.c.l., same basis 100 lbs. 1.90 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 2.75 - —
l.c.l., works 100 lbs. 3.15 - —
NF, gran., dms., works lb. .27 - .28
powd., dms., works lb. .32 - .33
Trihydrate, heavy (see Aluminum hydrate)
Ambergris, gray, tins oz. 8.50 -12.00
Aminoazotoluene, bbls lb. .85 - —
Aminomethylpropanol, cns., dms., works lb. .50 - .60
Aminoethylethanolamine, dms., c.l., works lb. .51½ - —
l.c.l., works lb. .52 - —
tanks, works lb. .50 - —
Aminophylline, USP, bots., kgs lb. 6.00 - —
Aminopyrine, USP, bots., dms lb. 6.00 - 6.15
Ammonia, anhydrous, fertilizer, tanks, works ton.74.00 -75.00
pure, cyls., extra, zone 1 lb. .17 - .17½
2 lb. .19 - .19½
3 lb. .21 - .21½
4 lb. .16 - .19½
refrigeration, tanks, works ton.76.50 -77.50
refrigeration, tanks, works ton.77.50 - —
Aqua (29.4% NH_3), dms., c.l., works 100 lbs. 3.10 - —
l.c.l., works 100 lbs. 3.50 - —
tanks, works, anhyd. basis ton.80.00 -81.00
Ammoniac gum (see Gum, ammoniac)
Sal, gray, bgs., c.l., works, frt. equald 100 lbs. 6.55 - —
l.c.l., same basis 100 lbs. 6.95 - —
white, gran., bgs., c.l., works 100 lbs. 4.75 - —
l.c.l., works 100 lbs. 6.25 - —
Ammoniacal liquor, tankcars, works. ton.80.00 -81.00
Ammonium acetate, purified, dms lb. .39 - .40
reagent, jars lb. .61 - .63
Benzoate, USP, dms., kgs., 4,000 lbs., frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, bbls., c.l., works ton.302.00 - —
ton lots, works ton.355.50 - —
less ton lots, works ton.360.50 - —
Bicarbonate, dms., works, c.l lb. .05½ - —
l.c.l., works, dms lb. .06 - —
Bichromate, bbls., works lb. .31 - .32
Bifluoride, dms., dlvd lb. .18 - .18¼
Bromide, gran., NF, bbls lb. .36 - .37
dms. lb. .37 - .40
powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, powd., dms. lb. .18½ - .22
Chloride, tech. (see Ammoniac, sal).
USP, gran., bbls., dms lb. .18 - .19
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .80 - .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia aqua)
Hypophosphite, NF, dms lb. 2.40 - —
Iodide, NF, jars lb. 3.79 - 3.91
Linoleate, plastic, 80%, dms., works lb. .40½ - —
kgs., works lb. .42½ - —
25%, dms., frt. alld lb. .21½ - —
tech., bbls., works lb. .37 - —
dms., works lb. .39 - —
Molybdate, metal grade, kgs lb. .90 - —
chemical grade, bbls., kgs lb. .85 - —
A.C.S., grade, dms lb. .88 - —
Nitrate, fertilizer grade, Canadian, 32.5% N, bgs., c.l., shipping point ton.63.00 - —
dom., bgs., western works ton.58.00 - —
Nitrate-dolomite, 20.5% N, bgs., Hopewell, Va. ton.46.00 - —
Oleate, dms., precip lb. .23¼ - —
Oxalate, fine gran., dms lb. .25 - .29
dms., 100 lbs., lots lb. .27 - .31
Pentaborate, gran., bbls., c.l., works ton.212.00 - —
ton lots, works ton.265.50 - —
less ton lots, works ton.270.50 - —

Ammonia pentaborate powder, $10 per ton higher.

Perchlorate, kgs., works lb. .50 - .75
Persulphate, kgs lb. .25½ - .28¼
Phosphate, com'l, bgs., c.l., works. lb. .08 - —
l.c.l., works lb. .08½ - —
dibasic, NF V, bbls., dms lb. .40 - —
tech., bgs., c.l., works lb. .08 - —
l.c.l., works lb. .08½ - —
Salicylate, NF, dms., kgs lb. 1.25 - 1.28
Silicofluoride, dms., works lb. .12 - .13
Stearate, 28%, dms lb. .21 - .31
paste, dms lb. .06½ - —
Sulphamate, bbls., dms., works lb. .18 - .20
Sulphate, coke-oven, bulk, producing ovens ton.45.00 -50.00
converters', bulk, works ton.45.00 -50.50
Sulphide, liquid, 40-45% basis, 100%, dms., c.l., works. lb. .10½ - —
l.c.l., works lb. .15½ - —
tanks, dlvd. or frt. alld. lb. .09 - —
Sulphocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate tech., bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - .19
Thioglycollate, highly purified, 100% basis, cbys lb. 1.70 - 2.25
commercial, same basis lb. 1.40 - 1.95
Thiosulphate, jars lb. .32 - .36
Amphetamine hydrochloride, dextro, dibasic, bots lb.40.00 - —
monobasic, bots lb.38.00 - —
dextro-laevo, dms lb. 7.50 - —
phosphate, dextro, dibasic, bots. lb.40.00 - —
dextro-laevo, dibasic, dms lb. 7.50 - —
monobasic, dms lb. 7.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd lb. .16½ - —
l.c.l., dlvd lb. .17½ - —
tanks, dlvd lb. .15 - —
ex pentane, dms., c.l., frt. alld. E. of Miss. R. lb. .16 - —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .15 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms lb. .90 - 1.00
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, ens., dms lb. .76 - .81
Anethol, com'l, dms., works lb. .50 - —
NF, ens., dms lb. .77 - .82
Angelica root, dom., bls lb. .65 - .70
imported, bls lb. .70 - .75
Angostura bark, bls lb. .44 - .49
Aniline oil, dms., c.l., works, frt. alld lb. .15 - —
l.c.l., works, frt. alld lb. .16 - —
tanks, works, frt. alld lb. .14 - —
Salt, dms., works lb. .26 - —
Anise, Argentine, bgs lb. No stocks.
Chinese, star lb. .12½ - .13
Cyprus, bgs lb. .20 - .20¼
Mexican, bgs lb. .14½ - .15
Syrian, bgs lb. .15 - .15¼
Anisic aldehyde, bots., dms lb. 1.95 - 2.20
Annatto paste, bxs lb. .34 - .37
Seed, bgs lb. .20 - .21
Anthracene, 80-85%, bbls., works lb. .60 - .86
90%, bbls., works lb. .81 - 1.00
Anthraquinone, 99.5%, bbls lb. .85 - —
Antimony butter (see Antimony chloride).
Chloride, soluf., cbys lb. .29 - .30
Metal, bulk, c.l., mines lb. .32 - —
Oxide, ceramic grade, bgs., c.l., frt. alld lb. .27 - —
l.c.l., frt. alld lb. .28 - —
paint grade, bgs., c.l., frt. alld. lb. .27 - —
l.c.l., frt. alld lb. .28 - —

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Antimony salt, 65%, bgs., c.l., dlvd. E. of Miss.....lb. No stocks.
Sulphide, 62-64%, bgs., frt. alld., dlvd..lb. .20 - .23
Antimony-potassium tartrate (see Tartar emetic).
Antipyrene, USP, dms.....lb. 2.35 - 2.45
Apomorphine, USP, bots.....oz. 23.20 -23.70
Archil extract, bbls.....lb. No stocks.
Areca nuts, powd., bbls.....lb. .22 .25
Arecoline hydrobromide, NF, bots. oz. 5.00 - 5.75
Arginine hydrochloride, laevo kilo. 140 00 150 00
Argols, min. 70%, bgs., shipment ports, per 100 kilos (100% purity) 18.00 -18.50
Arnica, flowers, bls.....lb. .45 - .75
root, bls.....lb. 1.45 —
Arrowroot, powd., bgs.....lb. .13 .16
Arsenic, metal, lump, bbls., prompt shipt lb. .80 .90
Sulphide, yellow, bbls.....lb. No stocks.
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l., dlvd. lb. .05½- —
l.c.l., dlvd.....lb. .06¼- .06¾
Asafetida, cs.....lb. .32 - .35
powd., bbls., dms.....lb. .50 .53
Asbestine (see Talc, fibrous, N. Y.).
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines...ton. 940.00 -960.00
No. 2, c.l. (20 tons), mines ton. 485.00 -492.00
Run-of-mine, c.l. (20 tons), mines ton. 400.00 - —
Fiber, 3K, c.l. (20 tons), mines, ton. 312.00 - —
3R, c.l. (20 tons), mines...ton. 267.00 - —
3T, c.l. (20 tons), mines...ton. 249.50 - —
3Z, c.l. (20 tons), mines...ton. 231.00 - —
4R, c.l. (20 tons), mines...ton. 124.50 - —
4M, c.l. (20 tons), mines...ton. 124.00 - —
4T, c.l. (20 tons), mines...ton. 111.50 -141.00
4Z, c.l. (20 tons), mines...ton. 111.50 - —
5D, c.l. (20 tons), mines...ton. 83.00 - —
5K, c.l. (20 tons), mines...ton. 88.00 - —
5M, c.l. (20 tons), mines...ton. 84.00 - —
5R, c.l. (20 tons), mines...ton. 78.50 -79.00
6D, c.l. (30 tons), mines...ton. 58.00 -59.00
7D, c.l. 30 tons), mines...ton. 52.00 -52.50
7K, c.l. (30 tons), mines...ton. 49.00 -49.50
7M, c.l. (30 tons), mines...ton. 41.50 -42.00
7R, c.l. (30 tons), mines...ton. 35.00 -35.50
7M, c.l. (30 tons), mines...ton. 30.50 -31.00
7R, c.l. (30 tons), mines...ton. 29.50 -30.00
7T, c.l. (30 tons), mines...ton. 23.00 -23.50
7RF, c.l. (30 tons), mines...ton. 30.50 -31.00
7TF, c.l. (30 tons), mines...ton. 30.50 -31.00
8S, c.l. (30 tons), mines...ton. 19.00 -27.00

Prices quoted above are in U. S. funds. Add $4 per ton for l.c.l. lots.

Asphaltum, cut-back, tanks, tank wagon, refinery.....gal. .09 - —
Emulsion, tanks, tank wagon, refinery.....gal. .09½- .10
Gilsonite, brilliant black, selects 270°-295° F. fusing pt., bgs., f.o.b. Colo. mines ton. 36.50 - —
seconds, 300°-390° F. fusing point, not uniform, bgs., Colo. mines ton. 31.00 - —
Jet, bgs., ton lots, gross weight, Colo. mines ton. 36.50 - —
Manjak, No. 10, crude, dms., works. lb. .06½- —
process form, bgs., works..lb. .05¼- .13
Steam-rfd., less than 80 penetration, tanks, tankwagon, refinery ton. 22.00 - —
80-300 penetration, tanks, tankwagon, refinery.....ton. 21.00 - —
Atropine, USP, bots.....oz. 13.50 -14.00
Sulphate, USP, bots.....oz. 9.00 - 9.35

B

Bacitracin, bulk, unlabeled, topical, 2,000 units..vial. .40 - —
10,000 units.....vial. .78 - —
50,000 units.....vial. 2.36 - —
Balm of Gilead buds, dried, bgs..lb. 1.40 - 1.50
Barbasco root (see Cube root).
Barberry, root bark, bgs.....lb. .60 - .65
tree bark, bgs.....lb. .53 - .55
Barbital, USP, dms.....lb. 4.50 - —
Sodium, USP, dms.....lb. 4.75 - —
Barium carbonate, precip., bgs., 10 tons and up, works..ton. 72.50 -80.00
smaller lots, works.....ton. 82.50 -90.00
Chlorate, kgs., works.....lb. .25½- .31
Chloride, NF, cryst., dms.....lb. .17 - .18
tech., bgs., c.l., works, frt. equald..ton. 90.00 - —
l.c.l., works.....ton. 100.00 - —
Chromate, bgs., frt. equald....lb. .31½- .32
Dioxide, dms., c.l., works.....lb. .12 - —
l.c.l., works.....lb. .12 - —
Hydrate, crystals, bgs.....lb. .08 - .09¼
Hydroxide, anhyd., bbls., works lb. .19 - —
Iodide, bots.....lb. 5.12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works.....lb. .11¼- —
l.c.l., works.....lb. .13 - —
Oxide, grd., dms., c.l., works..lb. .11 - —
l.c.l., works.....lb. .11¼- —
Peroxide (see Dioxide).
Stearate, ctns., c.l.....lb. .34 - —
smaller lots.....lb. .35 - .36
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls.....lb. .12½- .13
Sulphide, dms., c.l., works....ton. 55.00 - —
l.c.l., works.....ton. 70.00 - —
Barium-potassium chromate, dms., c.l., frt. alld..lb. .20 - —
l.c.l., works.....lb. .21 - —
Baryte ore, approx. 94% $BaSO_4$, bulk, mines..ton. 9.40 -12.50
Barytes, water-grd., paper bgs., c.l. St. Louis..ton. 35.05 - —
l.c.l., same basis.....ton. 36.85 - —
ex whse., N. Y.....ton. 49.65 - —
Southern off-color, bgs., mines ton. 19.00 - —
95.75%, bgs., mines.....ton. 20.00 - —
Bay leaves (see Laurel leaves).
Belladonna leaf, bls.....lb. .75 - 1.10
Root, bls.....lb. .45 - .50
Bauxite, bulk, mines.....ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works ton. 11.00 - —
Benzaldehyde, NF, dms.....lb. .68 - —
tech., cbys., dms.....lb. .45 - —
Benzal chloride, cbys., works ...lb. .19 - .25
Benzene (see Benzol).
Hexachloride, 99% gamma isomer (see Lindane)
11% gamma, tech., bgs., dms., c.l., works..lb. .27½- —
l.c.l., works.....lb. .29¼- —
6% gamma, 50% dust, dry, distributors, dms., c.l., dlvd..lb. .15 - —
l.c.l., dlvd.....lb. .16 - —
wet, distributors, dms., c.l., dlvd..lb. .16½- —
l.c.l., dlvd.....lb. .17½- —
Benzidine base, bbls.....lb. 1.02 - —
Benzocaine, cns.....lb. 3.25 - 3.35
Benzol (benzene), pure, nitration, tanks, works, Bethlehem, Pa., Dangerfield, Tex., Lackawanna, N. Y., Philadelphia, Pa., Sparrows Point, Md., St. Louis, Mo., Syracuse, N. Y., Wyandotte, Mich. gal. .21 - —
Birmingham, Ala., Chicago district, Cleveland district, Johnstown, Pa., Minequa, Colo., Pittsburgh district, Terre Haute, Ind., Woodward Ala., Youngstown, Ohio. gal .20 - —

Benzophenone, dms.....lb. 1.13 - 1.70
Benzothiazyl disulfide, 50-lb. bgs., 150-lb. containers, works, frt. alld., ton lots..lb. .33 - —
less ton lots, same basis..lb. .37 - —
Benzoyl chloride, cbys., dms., c.l., works, frt. eq..lb. .20½- .21
l.c.l., same basis.....lb. .21½- .22
Peroxide, pure, fib. ctns., works, lb. .90 - 1.05
Benzyl acetate, f.f.c., dms..lb. .60 1.00
Alcohol (see Alcohol, benzyl)
Benzoate, USP, f.f.c., cns., dms lb. .83 1.00
Chloride, tech., chys., c.l., works, frt. equald lb. .19 .19½
l.c.l., same basis.....lb. .20 .20½
high grade, 2c. higher.
Cinnamate, cns.....lb. 3.00 4.00
Formate, cns.....lb. 1.60 3.30
Propionate, bots.....lb. 1.94 2.30
Salicylate, bots.....lb. 1.55 2.25
Benzylidinacetone, bots.....lb. 1.85 2.70
Benzylisoeugenol, bots.....lb. 8.90 9.00
Berberine bisulphate, cns.....lb. No stocks
Hydrochloride, bots.....lb. No stocks
Sulphate, cns.....lb. No stocks
Berberis root, bls.....lb. .35 .40
Betagammapicoline, dms., c.l., works, lb. .21 .23½
l.c.l., works.....lb. .21½ 24
Betamethylnaphthalene, m.p., 32°C., dms., works lb. .90 - —
Betanaphthol, resublimed, dms., works. lb. .75 - —
tech., bbls., c.l., works.....lb. .30 - —
l.c.l., works.....lb. .32 - —
Benzoate, fib. dms., works.....lb. 1.75 - —
Salicylate, dms.....lb. 5.00 - —
Betanaphthylamine, tech., bbls., works lb. .80 - —
Betaphenylethylamine, dms., works, 1,000-lb. lots lb. 1.25 - —
smaller lots.....lb. 1.60 - —

Betapicolin, 90%-95%, dms., c.l., works lb. 1.35 - —
98%, dms., c.l., works.....lb. 1.85 - —
Beth root, bls.....lb. .45 - .50
Biotin, cryst.....gram. 12.50 - —
Bismuth chloride, jars.....lb. 3.95 - —
Bismuth citrate, USP VIII, jars lb. 3.27 - —
Hydroxide, dms.....lb. 4.18 - —
Metal, bxs., ton lots.....lb. 2.00 - —
Nitrate, cryst., dms.....lb. 1.85 - —
Oxychloride, dms.....lb. 3.97 - —
Oxide, anhydrous, dms.....lb. 4.60 - —
Phenolsulphonate, fib. dms..lb. 4.70 - —
Subcarbonate, USP, dms..lb. 2.80 - —
Subgallate, NF, fib dms....lb. 2.75 - —
Subiodide, fib. dms.....lb. 4.90 - —
Subnitrate, NF, dms.....lb. 2.30 - —
Subsalicylate, USP, dms....lb. 3.20 - —
Bismuth-ammonium citrate, USP, powd., dms lb. 3.80 - —
Black, acetylene, bgs., c.l., works lb. .13½- —
cs., l.c.l., shipt. point lb. .17 - .19
Bone, bgs., bbls., l.c.l., dlvd..lb. .14½- .22½
Carload price ½c. per lb. less. Deliveries to the Pacific Coast, ex dock or whse., 1½c. per lb. higher.
Carbon, channel, beads, bulk, c.l., works lb. .0650- —
bgs., c.l., works.....lb. .0690- —
l.c.l., dlvd. or whse....lb. .117 - .1175
uncompressed, regular, bgs., c.l., works lb. .0832- —
bgs., ctns., l.c.l., dlvd. or whse lb. .13¼- —
furnace, fast extruding, bgs., c.l., works lb. .05½- —
ctns., l.c.l., whse.....lb. .09½- —

Antimony Salt—Bleaching Powder

Black, carbon, high modulus, bgs., c.l., works..lb. .05 - —
ctns., l.c.l., whse....lb. .09 - —
semi-reinforcing, bgs., c.l., works. lb. .03½- —
ctns., l.c.l., whse.....lb. .07½- —
very fine, bgs., c.l., works lb. .0740 —
l.c.l., dlvd. or whse.....lb .1125 .1170
Charcoal (see C).
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works. lb. .10¾- —
l.c.l., works.....lb. .11 - —
Lamp, bgs., c.l., works.....lb. .07 .30
Mineral, bgs., works.....lb. 0160 0675
Black ash (see Barium sulphide).
Blackberry root, bls.....lb .12 - .13
bark of root, bls.....lb .30 - .32
Black dyes (see Dyes).
Black haw, root bark, bls.....lb. .70 - .80
Tree bark, bls.....lb. .28 - .30
Black indian hemp root, bls.....lb. .45 .50
Blanc fixe, dry, by-product, bgs., c.l., works..ton. 77.50 - —
l.c.l., works.....ton. 85.00 - —
direct process, bgs., c.l., works..ton. 85.00 - —
l.c.l., works.....ton. 90.00 - —
N. Y. whse.....ton. 108.00 - —
bbls., c.l., works.....ton. 90.00 - —
l.c.l., works.....ton. 95.00 - —
N. Y. whse.....ton. 113.00 - —
pulp, 66⅔%, bbls., c.l., works, ton. 67.00 - —
l.c.l., same basis.....ton. 73.00 - —
Bleaching powder, dms., c.l., works, 100 lbs. 4.50 - —
l.c.l., works.....100 lbs. 5.00 - —

AERO* BRAND

STEARATES

ALUMINUM
CALCIUM
MAGNESIUM
ZINC

WRITE FOR SAMPLES

MANUFACTURED BY

AMERICAN Cyanamid COMPANY

Industrial Chemicals Division
30 Rockefeller Plaza, New York 20, N. Y.

*Trade Mark

Blood, Dried—Calcium Chloride

Blood, dried, 16-16½% ammo., bgs., unit-ton. 9.25 • —
high-grade, unground, 16-17% ammon., bulk, Chicago, unit-ton. 9.25 • —
soluble, bgs., c.l. lb. .16½- .17½
l.c.l. lb. .17½- .22
Bloodroot, bls lb. .43 • .45
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N.C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 1.90 • —
Toner, obls., utno flushed, same basis lb. 1.05 • —
Celestial, bbls., same basis lb. .15 • .16
Chinese, bbls., same basis lb. .45 • —
Cobalt, genuine, bbls., same basis. lb. 4.90 • —
imitation (see Blue, ultramarine).
Copper-phthalocyanine, full strength, bbls., same basis lb. 3.75 • 3.85
80%, bbls., same basis lb. 3.00 3.40
Iron (see Blue, Chinese, Milori, Potash, Prussian, and Soda).
Methyl violet toner, bbls., same basis lb. 4.20 • —
Milori, bbls., same basis lb. .45 —
Peacock, fugitive, 100% color strength, same basis lb. .60 .79
Permanent toner, green shade, molybdic, bbls., same basis lb. 3.75 • —
tungstic lb. 4.00 • —
Potash, CP, bbls., same basis lb. .51 • —
Prussian, bbls., same basis lb. .45 • —
soluble, bbls., same basis lb. .45 —
Soda, C.P., bronze, bbls., same basis lb. .39 • —
Blue, ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .25 • .26½
jobbing type, dry, bbls., same basis lb. .14 • —
regular types, dry or pulp, bbls., same basis lb. .19 • .29
Victoria toner, molybdic, bbls lb. 3.75 • —
Tungstic, bbls lb. 3.75 • —
Violet toner, molybdic, obls., same basis lb. 1.24 • —
Tungstic, kgs., same basis lb. 2.60 2.70
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago.

Blue dyes are listed under Dyes.

Blueflag, root, bls. lb. 45. .50
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls lb. .09 • .12
Bone, raw, bulk, Chicago ton.75.00 —
junk, bulk, same basis ton.50.00 52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works ton.65.00 • —
Chicago, works ton.65.00 • —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works ton.65.00 • —
Chicago, works ton.65.00 • —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works. ton.65.00 • —
Chicago, works ton.65.00 • —
Phosphate, defluorinated (see D).
precipitated (see Calcium phosphate tribasic precip).
Boneset leaves, bls lb. .14 • .16
Borage flowers, bls lb. .40 • .45
Borax, tech, anhydrous, bgs., c.l., works ton.70.50 • —
ton lots, ex whse. N. Y. or Chi ton.115.25 • —
less ton lots, same basis, ton.120.25 • —
bbls., c.l., works ton.90.50 • —
ton lots, ex whse, N. Y. or Chi ton.135.25 • —
less ton lots, same basis, ton.140.25 • —
bulk, c.l., works ton.64.00 • —
crystals, 99½%, bgs., c.l., works. ton.61.25 • —
ton lots, ex whse, N. Y. or Chi ton.106.00 • —
less ton lots, same basis, ton.111.00 • —
bbls., c.l., works ton.81.25 • —
ton lots, ex whse, N. Y. or Chi ton.126.00 • —
less ton lots, same basis, ton.131.00 • —
bulk, c.l., works ton.57.25 • —
granular, 99½%, bgs., c.l., works ton.35.25 • —
ton lots, ex whse, N. Y. or Chi ton.80.00 • —
less ton lots, same basis, ton.85.00 • —
bbls., c.l., works ton.55.25 • —
ton lots, ex whse, N. Y. or Chi ton.100.00 • —
less ton lots, same basis, ton.105.00 • —
bulk, c.l., works ton.31.25 • —
powdered, 99½%, bgs., c.l., works ton.40.25 • —
ton lots, ex whse, N. Y. or Chi ton.85.00 • —
less ton lots, same basis, ton.90.00 • —
Borax, technical, powdered, bbls., c.l., works ton.60.25 • —
ton lots, ex whse, N. Y. or Chi ton.105.00 • —
less ton lots, same basis, ton.110.00 • —
bulk, c.l., works ton.36.25 • —

Borax packed in kgs. is $40 per ton higher than borax packed in paper bgs. USP borax $15 per ton higher than tech.

Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point lb. .15 • .21
l.c.l., same basis lb. .16 • .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies lb. .21 • —
1,000 lbs., same basis lb. .23 • —
single pkgs., same basis lb. .28 • —
dms., lead-lined, c.l., dlvd lb. .19 • —
Bromoform, USP, bots lb. 1.50 • 1.74
cbys. lb. 1.42 • —
Bromstyrol, bots lb. 4.85 6.25
Bronze powder, aluminum (see A).
Gold, litho., cans, dms., works lb. .50 • .60
moulding, cans, dms., works lb. .80 • 1.00
printing ink, cans, dms., works lb. .95 • 1.10
radiator, cans, dms., works lb. .60 • .65
Broomtop, bls. lb. .25 • .26
Brown, iron, synth., bgs., l.c.l., works lb. .12½- —
Oxide, metallic, bgs., works lb. .03 • .03¼
Sap, crystals, works lb. .12 • —
powdered lb. .13 • —
Sienna, burnt, paper bags., c.l., works lb. .03¾- .14¾
l.c.l., works lb. .04 • .15
raw, paper bgs., c.l., works lb. .04 • .12½
l.c.l., works lb. .04¼- .12¾
Umber, burnt, American, c.l., bbls., works lb. .04¾- .05¾
l.c.l., bgs., works lb. .05 • .06¼
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N.Y. lb. .05¾- .07¾
l.c.l., works lb. .06 • .08
raw, American, bgs., same basis lb. .03¾- .06
Turkey type, bgs., same basis lb. .06 • .06¼
Vandyke, bbls., works lb. .09¾- .12
Brucine, cns., 100 ozs oz. .45 • —
Sulphate, NF, cns., 100 ozs oz. .35 • —
Bryonia root, bls lb. .29 • .35
Buchu leaves, bls lb. .75 • .80
Buckthorn bark, bls lb. .14 • .18
cut and sifted, bls lb. .23 • .25
Berries, bgs lb. .80 • .90
Burdock, root, bls lb. .20 • .26
Butadiene, cyls., refy lb. .19 • —
tanks, same basis lb. .11½- —
Butane, indust., tanks, group 3 gal. .03½- —
Butternut bark, bls lb. .19 • .25
Butyl acetate, normal, ferment., Ill., Ind., prod., dms., c.l., works, frt. alld lb. .14 • —
l.c.l., same basis lb. .15 • —
tanks, same basis lb. .12½- —
tankwagons, same basis lb. .13 • —
other production, dms., c.l., same basis lb. .14 • —
l.c.l., same basis lb. .15 • —
tanks, same basis lb. .12½- —
synthetic, normal, dms., c.l., same basis lb. .14 • —
l.c.l., same basis lb. .15 • —
tanks, same basis lb. .12½- —
secondary, dms., c.l., same basis lb. .11½- —
l.c.l., same basis lb. .12 • —
tanks, same basis lb. .10 • —
Alcohol (see Alcohol butyl)
Aldehyde, dms., c.l., works lb. .17½- —
l.c.l., works lb. .18½- —
tanks, works lb. .16 • —
Ether (see Ether, butyl)
Isobutyl methacrylate, P-5, 50/50, cns., works lb. .60 • —
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .42½- —
l.c.l., same basis lb. .43½- —
tanks, same basis lb. .41 • —
Laurate, dms., works lb. .42 • —
Methacrylate, M-4, dms., works lb. .60 • —
cns., works lb. .63 • .67
P-4, cns., works lb. .65 • —
Myristate, dms., works lb. No prices.
Oleate, refd., dms., l.c.l., works lb. .52 • —
Phenylacetate, dms lb. 2.00 • 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd lb. No stocks
tanks, dlvd. lb. No stocks
Stearate, dms., c.l., frt. alld. E. of Rockies lb. .32 • —
l.c.l., same basis lb. .33 • —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium bromide, jars lb. 2.49 • 2.80
Iodide, jars lb. 5.10 • —
Lithopone (see Yellow).
Metal, ingots or sticks, cs., dlvd lb. 2.00 • —
patent shapes, cs., dlvd lb. 2.15 • —
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, natural, USP, cryst., dms., 100 lbs. or more lb. 4.75 • —
anhydrous, dms., 100 lbs. or more lb. 5.00 • —
Synthetic, USP, cryst., dms., 100 lbs. or more lb. 3.80 • —
anhydrous, dms. 100 lbs. or more lb. 4.00 • —
Citrated, USP, dms., 100 lbs. or more lb. 2.60 • —
Hydrobromide, bots lb. 6.70 Nom.
Calabar beans, bgs., futures lb. .65 .66
Calamine, USP, dms lb. .27 • .29
Calamus root, dom., bgs lb. .27 • .30
imported, bleached, bls lb. .70 Nom.
peeled, bls lb. .30 • .31
Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP unit(s), works, gram. 4.00 • —
1,000 to 10,000 s.u., works, gram. 4.40 • —
less than 1,000 s.u., works, gram. 4.80 • —
in edible oil, dms., 10,000 or more. .10 • —
1,000 to 10,000 s.u., works unit. .11 • —
less than 1,000 s.u., works unit. .12 • —
Calcium acetate, bgs., dlvd 100 lbs. 3.00 • 4.00
Arsenate, dealers, dms., c.l., whse., works, frt. alld lb. .09½- —
l.c.l., same basis lb. .10½- —
Bromide, NF, jars lb. .75 • .85
Carbide, standard generator size, dms., c.l., dlvd ton.121.00 —
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars lb. .28 • .30
flake, 77-80%, paper bgs., c.l., works, frt. equald ton.22.00 —
l.c.l., same basis ton.37.00 67.00
liquor, works, basis 40%, tankcars ton. 9.00 • —
pellets, bgs., c.l. works ton29.00 • —
solid, 73-75%, dms., c.l., works, same basis ton.20.00 • —
l.c.l., works, same basis ton.30.00 59.00
USP, gran., bbls lb. .30 • —

The design, lithography and fabrication of these attractive containers have been handled by National Can for a paint manufacturer's complete line of products. Such attractive sturdy pails offer eye appeal to invite sales . . . permanent lithographed label to maintain product identification . . . full protection to safeguard product quality.

National Can, in almost 50 years of manufacturing lithographed metal containers, has successfully solved packaging problems for a great variety of products ranging from powder dispensing cans to petroleum products. There is almost no limit to the items that can be packaged in lithographed metal containers.

You can benefit by using National Can lithographed metal containers . . . designed just for your product and manufactured to meet all standards of accuracy and high quality. A complete art, design, photography and color consultation service is available for your use. Contact National Can to learn how eye-appeal and permanent lithography can be incorporated into a container built for full protection.

6543

NATIONAL CAN CORPORATION

Executive Offices: 110 EAST 42nd STREET, NEW YORK 17, N. Y.

Sales Offices and Plants in: Baltimore, Md. • Indianapolis, Ind. • Chicago, Ill. • Maspeth, N. Y. • Hamilton, Ohio • Conenaugh, Pa. • Boston, Mass. • St. Louis, Mo.

Calcium chromate, bgs., frt. equald lb. .29½- .30
Cyanide, dms., dlvd. E. of Rockies lb. .30 - .50
Gluconate, AA, bbls., dms lb. .65 - .72
USP, bbls., dms lb. .58 - .65
Glycerophosphate, NF, fib. dms lb. 1.65 - 1.80
Hydride, dms., works lb. .90 - —
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies dm.24.00 -28.50
cns., cased (45 lbs.) same basis cs.19.75 -21.50
Hypophosphite, 50-lb. lots, dms lb. .80 - .83
Iodide, jars lb. 4.12 - —
Lactate, USP, dms lb. .37 - .44
Mandelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, liq., 4% Ca, dms., frt. alld lb. .23¾ - —
Nitrate, tech., works lb. .07 - .09
Pantothenate, dextro, jars gram .07½- —
Phenolsulphonate, dms. lb. .59 - .60
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 6.75 - —
l.c.l. 100 lbs. 7.10 - 7.45
feed grade, bgs., 10 tons, works, ton.105.00 - —
one ton or over, works ton.115.00 - —
less than one ton, works ton.125.00 - —
monobasic, bgs., 10,000 lbs., works, frt. equald lb. .05¾- —
smaller lots, same basis lb. .06¼- —
tribasic, bgs., c.l., works 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 6.95 - 7.30
Phytate, bgs., works lb. .28 - —
Resinate, precip., dms., frt. alld. works lb. .24 - —
Silicate, hydrated, bgs., c.l., works lb. .05½- —
l.c.l., works lb. .06 - —
Stearate, precip., ctns., c.l., works. lb. .32 - —
l.c.l., works lb. .33 - .34
Sulphate (see Gypsum).
Sulphide, 76%, bgs., c.l., works ton.45.00 - —
70%, bgs., c.l., works ton.50.00 - —
luminous, tins, works lb. 1.25 - —
Calcium-strontium sulphide, phosphorescent, dms., works lb. 1.05 - 1.50
fine particle size, dms., works lb. 1.50 - 1.75
Calendula flowers, bls lb. .50 - .85
Calomel, USP, cryst., dms lb. 1.82 - 1.83
fine powd., dms lb. 1.97 - 1.98
Camphene, chlorinated, 67-69% (see Toxaphene).
Camphor, monobromated, NF, dms., kgs lb. 3.10 - 3.20
natural lbs. No prices.
synth., tech., bbls., 2,000 lbs. or more, works lb. .42 - —
10 bbls. (1,500 lbs.) lb. .44½- —
smaller lots lb. .45 - .55
USP, gran., powd., bbls., 2,000-lb. lots lb. .53 - —
1,000-lb. lots lb. .54 - —
smaller lots lb. .55 - —
tablets, tins, 2,000-lb. lots lb. .73 - —
1,000-lb. lots lb. .74 - —
smaller lots lb. .75 - —
Canada balsam (see Fir balsam).
Canella alba bark, bls lb. .25 - .30
Cantharides, Chinese, cs lb. 1.00 - 1.30
powd., bxs. lb. 1.15 - 1.50
Russian, bgs lb. 4.50 - 5.00
powd., bxs. lb. 5.75 - 6.00
Capsicum (see Pepper, red).
Oleoresin, NF VIII, cns lb. 6.50 - 6.75
Caramel coloring, NF, bbls gal. 1.02 - 1.20
Caraway seed, Danish, bgs lb. .15 - .15½
Dutch, bgs lb. .15 - .15½
Carbazole, 97%, steel dms., ton lots, works lb. 1.75 - —
fib. dms., same basis lb. 1.70 - —
Carbinol, butyl, secondary, dms., l.c.l., works lb. .70 - —
Methylisobutyl, dms., c.l., frt. alld. E lb. .13 - —
l.c.l., same basis lb. .13½- —
tanks, same basis lb. .11½- —
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld. to competitive points lb. .06¼- —
l.c.l., same basis lb. .07¼- —
5-gal. dms., same basis lb. .09½- —
l.c.l., same basis lb. .08¾- —
tankcars, same basis lb. .0445 - —
Dioxide, cyls lb. .06 - .08
Tetrachloride, CP, dms., works lb. .09 - .11½
tech., dms., E. of Rockies, c.l., frt. alld lb. .08 - —
l.c.l., same basis lb. .08½- —
W. of Rockies, c.l., f.o.b. stock points lb. .08½- —
l.c.l., frt. alld. lb. .09 - —
NF, cbys lb. .17 - .19
Carboxymethylcellulose-Sodium—See CMC.
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
100-lb. lots, works lb. 4.10 - 4.75
Cardamom fruit, bleached, bold, cs., lb. 3.40 - 3.45
medium, cs lb. 3.25 - 3.30
Coorges, cs., futures lb. 2.25 - 2.30
decorticated, Guatemalan, cs., futures lb. 2.82 - —
Indian, cs lb. No stocks.
green, Alleppey, bgs lb. 2.65 - 2.70
Seed (See Cardamom fruit, decorticated)
Carmine, No. 40, NF, buik, 100 lbs. or more lb. 5.50 - —
smaller lots lb. 5.65 - 6.15
Carotene, crystals, research grade, ampuls, pure alpha or beta, 10 mg. 5.00 - —
90% beta-10% alpha, ampuls 100 mg. 2.00 - —
bulk grain quantities gm. 5.00 - —
technical, 1,350,000 A units per gram gm. .67½- —
tins, works gm. .62 - —
dry powder, 3,330 A units per gram lb. .70 - —
emulsion (in milk), 500,000 A units per 16-oz. cn cn. .85 - —
in vegetable oil, 250,000 A units per gram lb.37.50 - —
50,000 A units per gram lb. 7.87 - —
26,000 A units per gram, tins, works milli. units. .32 - —
dms., works milli. units. .30 - —
3,330 A units per gram lb. .85 - —
microcrystalline, in oil, 400,000 A units per gram, tins, works milli. units. .50 - —
Carvol, bots lb.10.00 -16.00
Cascara sagrada bark, bulk lb. .28 - .30
Case-hardening mixture, 30% gran., dms., l.c.l., works lb. .10½- —
Casein, dom., acid-precip., standard, bgs., 10,000 lbs. ar more, ship't point lb. .22 - .22½
premium, bgs., 10,000 lbs. or more, ship't point lb. .22½- .23
rennet-precip., bgs., 10,000 lbs. or more, ship't point lb. .28 Nom.
imp., acid-precip., ground, 100 bgs. or more, ex dock lb. .17¾- .18
Cashew nut liq., treated, dms., c.l., f.o.b. Newark, N. J. lb. .21 - —
ton lots, same basis lb. .22¼- —
dm. lots, same basis lb. .24¼- —
Cassia bark, Batavia, longstick, bls. lb. .27 - .28
broken, bls lb. .25 - .25½
short stick, bls lb. .22 - .24
Cassia, China, Canton, rolls, select, cs lb. .12 - .12½
broken, bls lb. .11 - .11½
Honan, rolls, scraped, bls lb. .16 - .16½
broken, bls lb. .15 - .15½
unscraped, bls lb. .14½- .15
broken, bls lb. .13½- .14
Yunnan, rolls, scraped, bls lb. .16 - .16½
broken, bls lb. .15 - .15½
unscraped, bls lb. .14 - .14½
broken, bls lb. .13 - .13½
Saigon, broken, bls lb. .26 - .28
medium, bls lb. .35 - .35½
thin, bls lb. .41 - .42
Buds, China, bgs lb. .22 - .25
Cassia fistula, bskts lb. .30 - .35
Castor beans, bgs., Brazilian ports long ton.106.00 - —
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton.21.00 - —
Castoreum, nat., cns lb.12.00 45.00
synthetic, cns lb.24.00 - —
Catechol, CP, cryst., fib. dms., works. lb. 2.00 - —
resublimed, dms., works lb. 4.00 - —
Catnip, bls lb. .50 - .55
Celery seed, French, bgs lb. .25 - .25½
Indian, bgs. lb. .24 - .24½
futures, bgs. lb. .23 - .23½
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more lb. .36 - .40
granules, ctns., same basis lb. .42 - —
molding composition, plain colors, translucent, metallic pearls, special black, dms., c.l., frt. alld lb. .40 - —
l.c.l., same basis lb. .45 - 51
regular black, dms., l.c.l., same basis lb. .31 - .39
variegations, dms., l.c.l., same basis lb. .50 - .59
Cellulose acetate, molding and extrusion transparents, dms., c.l., same basis lb. .47 - —
l.c.l., same basis lb. .49 - .54
extrusion compounds, translucent metallic pearls, special black, dms., c.l., same basis lb. .42 - —
l.c.l., same basis lb. .44 - .49
Butyrate, flake, 17% butyryl content, ctns., 500 lbs. or over, works lb. .52 - —
less than 500 lbs., works lb .53 - —
17.5% butyryl content, ctns., 500 lbs. or over, works lb. .49 - —
less than 500 lbs., works, lb. .50 - —
26.5% butyryl content, ctns., 500 lbs. and over, works lb. .53 - —
less than 500 lbs., works lb. .54 - —
37% butyryl content, ctns., 500 lbs., and over, works lb. .53 - —
less than 500 lbs., works lb. .54 - —
46% butyryl content, ctns., 500 lbs. and over, works lb. .53 - —
less than 500 lbs., works lb. .54 - —
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l., frt. alld. lb. .56 - .61
regular black, dms., l.c.l., same basis lb. .44 - .48
variegations, dms., l.c.l., same basis lb. .61 - .66
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more lb. .40 - —

Calcium Chromate—Chestnut Extract

Cerium hydrate, dms., works lb. 1.25 - —
Oxalate, NF, bbls., bgs., works lb. .70 - .72
Oxide, optical grade, bgs., under 100 lbs., works lb. 2.25 - —
kgs., 100-lb lots, works lb. 1.85 - —
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works lb. .02½- .05½
l.c.l., ex whse lb. .04 - —
paint, bgs., c.l., works ton.40.00 - —
papermakers, bgs., c.l., works. ton.32.50 -40.00
rubber makers, bgs., c.l., works. ton.30.00 - —
Chamomile flowers, Hungarian, cs. lb. .45 - .48
Roman, bls lb. .95 - 1.00
Charcoal, activated, USP, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½- .32½
smaller lots, works lb. .27 - .50
Bone, NF, bbls lb. .23 - —
Hardwood, briquets, bulk, c.l., works ton.49.80 - —
bgs., c.l., works ton.51.80 - —
granular, bgs., incl., c.l., works. ton.46.80 -59.00
lump, bulk, c.l., works ton.38.80 -43.50
bgs., extra, returnable, c.l., works ton.41.80 -45.50
Pinewood, gran., powd., ogs., c.l., works, South ton.30.00 -40.00
l.c.l., works ton.40.00 -50.00
lump bgs., c.l., works, South ton.35.00 - —
bulk, c.l., works, South ton.23.50 - —
bgs., l.c.l., works, South ton.40.00 -50.00
Willow, powd., bbls lb. .06 - .07
Chestnut extract, 25% tannin, bbls., c.l., works lb. .0465- —
l.c.l., works lb. .0495- —
tanks, works lb. .0375- .0390
powd., 65% tannin, bgs., extra, c.l., works lb. .1105- —
l.c.l., works lb. .2170- .2180

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DDT Government Specifications
2,4-D Acid, Salt and Isopropyl Ester
TRICRESYL PHOSPHATE
ERGOSTEROL
(Non Irradiated)
MONTROSE CHEMICAL COMPANY
LISTER AVENUE, NEWARK, NEW JERSEY
SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N.Y. TRIBUNE TOWER, CHICAGO, ILLINOIS

China Clay—Dyes, Coaltar, General Use

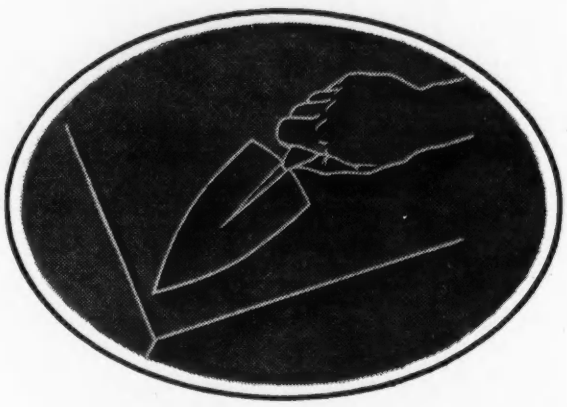
China clay, dom., dry-grd., air-floats, 99.75% 300 mesh, bgs., c.l., works ton 12.50 -13.00
l.c.l., works ton 13.50- 14.00
bulk, c.l., works ton 9.50 -10.00
200 mesh, bgs., c.l., works ton 10.00 -12.00
l.c.l., works ton 11.00 -16.00
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works ton 13.00 - —
paper bgs., c.l., works. ton 16.00 - —
imported, white lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila net ton 16.00 -35.00
powd., bgs., c.l., ex dock ton 45.00 - —
l.c.l., ex whse ton 50.00 -55.00
Chloral, tech., dms., c.l., works lb. .41 - —
l.c.l., works lb. .42 - —
tanks, works lb. .40 - —
Hydrate, USP, jars lb. 1.05 - 1.15
Chloramine T, NF, bbls., works lb. .75 - 1.00
Chlordane, agricultural, dms., l.c.l., stock points lb. .82 - 2.00
refined, dms., stock points lb. .97 - 2.15
Chlorinated paraffin, dms., works lb. .12¼- .13½
Rubber, standard, ctns., c.l., works lb. .42 - —
l.c.l., works lb. .43 - —
Chlorine, liquid, cyls., c.l., works lb. .07 - .12
l.c.l., stock points lb. .09 - .19
tanks, single units, works, frt. equald 100 lbs. 2.40 - —
multiple units, 3 cars, works, frt. equald 100 lbs. 2.70 - —
2 cars, same basis 100 lbs. 3.30 - —
1 car, same basis 100 lbs. 3.90 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .20 - —
l.c.l., same basis lb. .22 - —
tanks, same basis lb. .16 - —
USP, dms. lb. .30 - .33
Chloro(4)-2-Toluidine, obls. lb. 1.38 - —
Chlorophyll, oil soluble, water soluble, cosmetic and pharmaceutical, bots lb. 4.00 - 4.50
Chloropicrin, com'l, bots lb. 1.40 - —
cyls., 180-lbs., frt. alld lb. .91 - —
100-lbs., same basis lb. .93 - —
25-lbs., same basis lb. 1.18 - —
Cholesterol, USP, fib. dms., 100-lb. lots lb. 8.50 - —
5-lb. pkg. lb. 9.00 - —
1-lb. pkg. lb. 9.50 - —
Choline chloride, fib. dms., works lb. 2.90 - 3.00
Dihydrogen citrate, fib. dms., works, lb. 3.00 - 3.10
Chromium acetate, powd., 72% Cr., bbls., works lb. No stocks
solut., 7%, bbls., cs lb. .08 - .08½
8½%, bbls., cs. lb. No stocks
Fluoride, bbls., works lb. .44½- —
Green (see Green, chrome).
Oxide (see Green, chromium oxide).
Oleate, solid, bbls lb. .49 - —
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, USP, bots. lb. 7.65 - 9.24
Cinchona bark, N.F., red, quill, 20-inch, cs lb. 1.26 Nom.
broken, bgs. lb. .40 - .45
yellow, broken, bgs. lb. .35 - .40
Cinchonidine, small cryst., ens., 100 ozs oz. .71 - —
Sulphate, cns., 100 oz. oz. .55 - —
Cinchonine, large cryst., ens., 100 ozs oz. .69 - —
small cryst., cns., 100 ozs oz. .65 - —
Sulphate, N.F., cns., 100 ozs oz. .42 - —
Cinchophen, NF, heavy, dms., works lb. 3.70 - 4.05
Standard, dms., works lb. 3.50 - 3.85
Cinchophen-sodium, standard, dms., works lb. 4.50 - 4.85
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms lb. .83 - .90
Cinnamon, Ceylon, No. 2, bis lb. .20½- .21
Citral, bots., cns. lb. 3.60 - 5.00
Citronellal, bots., dms lb. 2.50 - 7.75
Citronellol, bots., dms lb. 2.95 - 4.75
Civet, bots oz. 4.00 - 5.00
artificial, bots lb. 15.00 - —
Clove, Madagascar, bis lb. .21 - .22
futures, bis. lb. .21½- .22
Zanzibar, bis lb. .22 - .22½
futures lb. .23½- .24
Clover tops, red, dom., bgs lb. .55 - .65
imported, bgs. lb. No stocks
CMC, purified, high vis., ctns., 20,000 lbs. or over, works, frt. alld lb. .63 - —
smaller lots, same bans lb. .65 - .75
low and medium vis., ctns., 20,000 lbs. or over, works, frt. alld lb. .60 - —
smaller lots, same basis lb. .62 - .72
tech., low vis., dms., c.l., works lb. .30 - —
l.c.l., works lb. .32 - —
Coaltar, coal-gas, water-gas, crude, resale, dms., c.l., ex-whse, gal. .23½- —
l.c.l., ex-whse gal. .25 - —
tanks, ex-whse gal. .13½- —
refd., resale, bbls., c.l., ex-whse, gal. .24½- —
l.c.l., ex-whse gal. .26 - —
tanks, ex-whse gal. .14½- —
Cobalt acetate, bbls., dlvd lb. .83½- —
Carbonate, powd., bgs., works lb. 1.65 - —
feed grade, 49½% Co, kgs lb. 1.65 - —
Chloride, kgs., works lb. .91¼- —
feed grade, 24.5% Co, kgs lb. .91¼- —
Hydrate, bbls lb. 2.13 - —
feed grade, 62% Co, kgs lb. 2.13 - —
Linoleate, paste, 6% Co, dms. lb. .57 - —
solid, 8½%, Co, dms lb. .66½- —
Fine Co, dms lb. .62½- —
Metal, 97-99%, kgs., ex-whse lb. 1.80 - —
under 100 lbs., ex-whse lb. 1.82 - 1.87
Naphthenate, liq., 6% Co, dms. lb. .37¼- —
Nitrate, feed grade, 20.4% Co, bbls. lb. .78¾- —
Oxide, black, kgs lb. 1.38 - —
Phosphate, feed grade, 34% Co, kgs lb. 1.31¼- —
Resinate, fused, 3% Co, dms lb. .22¾- —
Sulphate, bgs. lb. .63¼- —
feed grade, 21% Co, kgs lb. 1.05 - —
Cobalt salts, prices are on dlvd., basis.
Cobalt-ammonium sulphate, 14% Co, kgs lb. .75 - —
Cocaine, USP, cns., 100-oz oz. 15.00 - —
Hydrochloride, cns., 100-oz. lots oz. 11.75 - —
Cochineal, gray, bgs lb. .67 - .68
silver, Teneriffe, bgs lb. .69 - .70
Cocillana bark bgs lb. .16 - .17
Cocoa butter, bgs lb. .38½- .39
Codeine, NF, cns., 100 ozs oz. 13.25 - —
Hydrochloride, cns., 100 ozs oz. 11.85 - —
Phosphate, USP, cns., 100 ozs oz. 10.25 - —
Sulphate, USP, cns., 100 ozs oz. 10.75 - —
Codliver oil (see Oil, codliver).
Cohosh, black, root, bls. lb. .24 - .26
Blue, root, bls lb. .17 - .19
Colchicine, USP, bots., cns oz. 86.00 -96.00
Colchicum root, bls lb. .60 - .70
Seed, bgs lb. 2.25 - 2.50
Collodion, USP, dms lb. .24 - .29
Flexible, USP, dms lb. .25½- .30½
Colocynth, pulp, bls lb. .30 - .35
Colombo root, bls lb. .18 - .23
Coltsfoot leaves, bgs lb. .30 - .35
Condurango bark, bgs lb. .18 - .20
Copaiba balsam, cns. dms lb. .65 - .69
Copper acetate, cupric, bbls., works lb. .28 - —
smaller containers, works lb. .29 - .30
Carbonate, 55%, bbls lb. .218 - .2525
Chloride, anhyd., bbls., works lb. .25½- —
crystals, bbls., works lb. .27½- —
Citrate, USP, 5-lb bots lb. 2.40 - —
Cyanide, tech., bbls lb. .45 - .48
Gluconate, dms., cns lb. 3.00 - 3.20
Hydrate, dms., dlvd. E. Miss lb. .24¼- .24¾
Metal, electrolytic, dlvd lb. .17½- —
Naphthenate, liquid, 8% Cu, dms., frt. alld lb. .22¼- —
Nitrate, tech., cryst., bbls., works. lb. .21¼- —
Oleate, liquid, 8.5% Cu, bbls lb. .27 - —
solid, 10% Cu, bbls lb. .39 - —
Oxide, black, bbls., works lb. .24¼- .26¾
red, com'l, bbls., works lb. .26½- .30
Oxychloride-sulphate, bgs., frt. alld lb. 24¼- .27¼
Quinolate lb. 3.50 - —
Resinate, precip., dms., frt. alld. lb. .23½- —
Stearate, bgs., works lb. .39½- —
Sulphate, cryst., 99%, bgs., c.l., works 100 lbs. 7.00 - —
l.c.l. 100 lbs. 7.25 - 8.00
CP, cryst., gran., dms., works. lb. .12¾- —
monohydrated, 35%, dms., c.l., dlvd. 100 lbs. 11.90 - —
tribasic, dealers, bgs., c.l., works lb. .1815- —
l.c.l., works lb. .2050- —
USP, gran., cryst., dms lb. .10 - .26
Copperas, cryst., gran., bgs., c.l., works ton 17.00 - —
l.c.l., works 100 lbs. 1.55 - 2.00
bbls., c.l., works ton 20.00 - —
bulk, c.l., works ton 14.00 - —
Copra, c.i.f., Atlantic, Gulf ports ton 170.00 -175.00
Pacific ports ton 165.00 -170.00
Coriander seed, Argentine, bgs., futures lb. .08½- .09
Italian, bgs. lb. .07 Nom.
Moroccan, bgs lb. .09½- .10½
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 5.49 - —
bbls., c.l., same basis 100 lbs. 5.55 - —
Syrup, 42°, bbls., c.l 100 lbs. 5.87 - —
l.c.l. 100 lbs. 6.02 - —
Cornsilk, bls lb. .15 - .19
Corrosive sublimate, NF, cryst., dms., 50 lbs. or more lb. 1.68 - —
gran., powd., dms., 50 lbs. or more lb. 1.53 - —
Cottonroot bark, bls lb. .28 - .30
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton 1.75 - —
Meal, 41% protein, sacked, c.l., mills ton 59.00 -61.00
Coumarin, cns., 25 lb lb. 2.75 - —
smaller lots lb. 2.80 - 2.90
powd., cans lb. 3.00 - 3.05
Cramp bark, NF, bls lb. .80 Nom.
Cranesbill root, bls lb. .28 - .30
Cream of tartar, dom., NF, gran. or powd., bbls., 5,000 lbs. one ship lb. .29½- —
smaller lots lb. .30 - .31
imported, kgs lb. .24 - .26
Creosote, coaltar, crude, tanks, works, frt. equald gal. .14 - .18
refined, dms., c.l., works gal. .38½- —
l.c.l., same basis gal. .39 - —
tanks, same basis gal. .25 - —
solution, 80%, tanks, works gal. .20 - —
NF, beechwood, bots, cbys lb. 1.15 - 1.20
hardwood, bots, cbys lb. .85 - —
Pinewood, dms gal. .31 - .32
Carbonate, NF, bots., cbys lb. 2.35 - 2.40
Cresol, tech., dry, above 207°C. non-non-ret, dms., c.l. frt. equald. lb. .1255- —
l.c.l. same basis lb. .1285- —
ret.-dms., c.l., same basis. lb. .1225- —
l.c.l. same basis lb. .1255- —
tanks, same basis lb. .1125- —
USP, non-ret., dms., c.l., same basis lb. .1280- —
l.c.l., same basis lb. .1310- —
ret., dms., c.l., same basis lb. .1250- —
l.c.l., same basis lb. .1280- —
tanks, same basis lb. .1150- —
Crotonaldehyde, 91-93%, dms., c.l works lb. .16½- —
l.c.l., works lb. .17 - .20
Cryolite, nat., dealers, bgs., c.l., works 100 lbs. 12.75 - —
bbls., l.c.l., works 100 lbs. 13.75 - —
Cube root, powd., 5% rotenone, bgs., ton lots, works lb. .30 - —
extract liquid 1% rotenone, dms., works gal. 1.50 - —
Cubeb berries, XX NF bgs lb. .35 - .45
powd., cs. lb. .45 - .55
Culvers root, bbls lb. .50 - .60
Cumene, dms., c.l. lb. .08 - —
l.c.l. lb. .09 - —
tanks gal. .53 - .56
Cumin seed, Cyprus, bgs., afloat lb. .18 - .19
Morocco, bgs lb. .17½- .18
Persian, bgs lb. .17½- .18
Syrian, bgs lb. .17½- .18
Cutch, extract, 55% tannin, bgs., ex dock lb. .08¼- —
Cyanamide, fertilizer mixing grades, 20.6% N, gran., bulk, Niagara Falls, Ont., contracts, bulk unit-ton 2.85 - —
pulv., 21% N., bgs., same basis unit-ton 2.75 - —
Cyclohexane, tech., dms., c.l., works. lb. .09½- .12¼
l.c.l., works lb. .10 - .13
tanks, works lb. .08 - .11½
Cyclohexanol, tech., dms., c.l., works. lb. .21½- —
l.c.l., works lb. .22 - —
tanks, works lb. .20 - —
Cyclohexanone, tech., dms., c.l., works lb. .26½- .30
l.c.l., works lb. .27 - .31
tanks, works lb. .25 - .29
Cyclohexylamine, dms., works lb. .34 - —
Cyclopropane, USP, 2 lb. cyls, works, cyl. 40.00 - —
6 oz. cyls., works cyl. 10.50 - —
Hospitals, cyls., 40 gal. lots gal. .32 - —
100-gal. lots gal. .31 - —
200-gal. lots gal. .30 - —

D

2, 4-D, bbls., c.l., works, frt. equald. lb. .55 - —
l.c.l., same basis lb. .60 - .75
Damiana leaves, bls lb. .40 - .45
Dandelion root, bls lb. .35 - .40
DDD, tech., fine grd., fib., dms., c.l., works lb. .51 - —
l.c.l., works lb. .51½- —
lump, fib. dms., c.l., works lb. .49 - —
l.c.l., works lb. .49½- —
DDT, fiber dms., c.l., works lb. .34 - —
smaller lots, works lb. .33 - .34
Decanol, normal, tech., dms., c.l., dlvd lb. .34½- —
l.c.l., dlvd. lb. .36½- —
tanks, dlvd. lb. .32 - —
Deertongue leaves, bls lb. .30 - .35
Defluorinated phosphate, 65% b.p.l., paper bgs., works ton 44.15 -55.75
Rock, paper bgs., works ton 34.25 - —
Degras, common, bbls lb. .11 - .12
Neutral, less 2% ffa., bbls lb. .20 - .22
over 2% ffa., bbls lb. .19 - .21
Derris root, 5% rotenone, powd lb. .33 Nom.
Dextrin, corn, British gum, paper bgs., c.l. 100 lbs. 7.05 - —
Chicago 100 lbs. 6.40 - —
l.c.l. 100 lbs. 7.20 - —
canary, paper bgs., c.l. 100 lbs. 6.79 - —
Chicago 100 lbs. 6.14 - —
l.c.l. 100 lbs. 6.94 - —
dark, paper bgs., c.l. 100 lbs. 6.89 - —
Chicago 100 lbs. 6.24 - —
l.c.l. 100 lbs. 7.04 - —
white, paper bgs., c.l. 100 lbs. 6.64 - —
Chicago 100 lbs. 5.99 - —
l.c.l. 100 lbs. 6.79 - —
Corn dextrin in bgs., 17c. per 100 lbs. higher.
Potato, bgs lb. .11¼- .11¾
Tapioca, pure, envelope, bgs lb. .16 - .16½
Dextrose, USP, dms lb. .17¾- —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots lb 5.00 - 5.50
laboratory grade, bots 100 grams. 4.50 - —
tech., bots., works lb. 3.00 - —
Diamyl ether (see Ether, amyl)
Phthalate, dms., c.l., dlvd. E lb. .35½- —
l.c.l., dlvd. E lb. .36½- —
tanks, dlvd. E lb. .34 - —
Diamylphenols, mixed, dms., c.l., works lb. .31 - —
l.c.l., works lb. .32 - —
tanks, works lb. .30 - —
Dianisidin, dms lb. 1.65 - —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast ton. 50.00 -52.00
California ton. 38.00 -40.00
l.c.l., ex whse ton. 80.00 - —
purified, bgs., c.l., Atl. coast ton. 62.00 - —
California ton. 50.00 - —
l.c.l., ex whse ton. 90.00 - —
imported, Algerian, bgs., c.l., Atlantic coast ton. No prices.
Mexican, white, bgs., c.l., Atlantic coast lb. .03 - —
l.c.l., Atlantic coast lb. .06 - —
Dibenzyl sebacate, dms., c.l., works. lb. .66½- —
l.c.l., works lb. .67 - —
tanks, works lb. .65 - —
Dibutoxyethyl sebacate, dms., c.l., works lb. .55½- —
l.c.l. works lb. .56 - —
tanks, works lb. .54 - —
Dibutyl phthalate, dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. .31½- —
tanks, dlvd lb. .29 - —
Sebacate, dms., c.l., works lb. .51 - —
l.c.l., works lb. .51½- —
tanks, works lb. .49½- —
Tartrate, dms., works, frt. alld lb. .92 - 1.02
Dibutylamine, dms., c.l., frt. alld lb. .51½- .52½
l.c.l., frt. alld lb. .52½- .53½
tanks, frt. alld lb. .49 - .50
Dicapryl sebacate, dms., c.l., works, lb. .54½- —
l.c.l., works lb. .55 - —
tanks, works lb. .53 - —
Dichloroanilin, dms., works lb. .75 - .80
Dichlorodiphenyldichloroethane (see DDD).
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichlorophenol, dms., c.l., frt. equald lb. .27 - —
l.c.l., frt. equald lb. .28 - —
Dicyclohexylamine, dms., works lb. .38 - —
Dicyclohexylphthalate, fib. dms., c.l., works lb. .42½- —
l.c.l., same basis lb. .43 - —
Diethanolamine, dms., c.l., E lb. .26½- —
l.c.l., same basis lb. .27½- —
tanks, same basis lb. .25 - —
Diethyl carbonate, dms., c.l., frt. alld lb. .36½- —
l.c.l., same basis lb. .37½- —
tanks, same basis lb. .35 - —
Maleate, dms., c.l., dlvd lb. .50½- —
l.c.l., dlvd lb. .51½- —
tanks, dlvd lb. .50 - —
Oxalate, dms., c.l., frt. alld lb. .34½- .35½
l.c.l., same basis lb. .35½- .36½
tanks, same basis lb. .34 - —
Phthalate, dms., c.l., dlvd lb. .26 - .27½
l.c.l., dlvd lb. .27 - .28
tanks, dlvd lb. .24½- .26
Sulphate, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Diethylamine, dms., c.l., frt. alld lb. .66½- —
l.c.l., works lb. .67½- —
tanks, works lb. .65 - —
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss lb. .75 - —
Diethylanilin, dms lb. .48 - —
Diethyleneglycol, dms., c.l., frt. alld. E lb. .17¼- —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16 - —
Diethylether, dms., l.c.l., works lb. .40 - —
Monobutylether, dms., c.l., works. lb. .26 - —
l.c.l., works lb. .26½- —
tanks, works lb. .24½- —
Monobutylether acetate, dms., c.l., works lb. .27½- —
l.c.l., works lb. .28 - —
Monoethylether, dms., c.l., works. lb. .18 - —
l.c.l., works lb. .18½- —
tanks, works lb. .16½- —
Diethyleneglycol monoethylether, acetate, dms., c.l., works. lb. .24 - —
l.c.l., works lb. .24½- —
Monomethylether, dms., c.l., works lb. .22 - —
l.c.l., works lb. .22½- —
tanks, works lb. .20½- —
Diethylenetriamine, dms., c.l., works. lb. .51½- —
l.c.l., works lb. .52 - —
tanks, works lb. .50 - —
Diethylstilbestrol, USP, bots kilo. 260.00 -300.00
Digitalin, cryst., bots gram. 15.00 -18.00
powd., bots oz. 25.00 -30.00
Dilitgalis leaves, dms lb. .70 - .85
Diglycol laurate, dms lb. .34 - .36
Oleate, light, dms lb. .26 - .28
Stearate, dms lb. .27 - .29
Dihexyl sebacate, dms., c.l., works, lb. .42½- —
l.c.l., works lb. .43 - —
tanks, works lb. .41 - —
Dihydrostreptomycin hydrochloride and sulphate, hospitals, vials, gram. .80 - —
wholesalers, vials gram. .64 - —
Dihydroxydichlorodiphenylmethane, dms lb. .85 - 1.00
smaller containers lb. 1.05 - 1.40
Di-isobutyl ketone, dms., c.l. dlvd. lb. .14 - —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12½- —
Di-isobutylene, dms., c.l., works lb. .07 - —
l.c.l., works lb. .07½- —
tanks, works lb. .05½- —
Di-isooctyl phthalate, dms., c.l., dlvd. lb. .41½- —
l.c.l., same basis lb. .42½- —
tanks, same basis lb. .40 - —
Dillseed, natural, bgs lb. .12½- .13
dewhiskered, bgs lb. .13 - .13½
Dimethyl phthalate, dms., c.l., dlvd. lb. .26½- —
l.c.l., dlvd lb. .27 - —
tanks, dlvd lb. .25 - —
Sebacate, dms., c.l., works lb. 69½- —
l.c.l., works lb. .70 - —
tanks, works lb. .68 - —
Sulphate, 55-gal. ret., dms., c.l., works lb. .15 - —
l.c.l., works lb. .16 - —
10-gal. ret. dms., works lb. .16½- —
Dimethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .37 - .38
l.c.l., works, basis 100% lb. .38 - .38½
tanks, works, basis 100% lb. .33 - —
Dimethylanilin, dms., c.l. lb. .23 - —
l.c.l. lb. .25 - —
tanks lb. .21 - —
Dinitroanilin, dms., frt. equald lb. .50 - —
Dinitrobenzene, crude, bbls lb. .16 - —
Dinitrochlorobenzene, 47%, m.p., c.l., dms lb. .13½- .14
l.c.l. lb. .14 - —
tanks lb. .13¼- —
Dinitrophenol, bbls. lb. .28 - —
Dinitrotoluene, oily, dms lb. .07 - .09
refd., dms. lb. .21 - —
Dinonylnaphthalene, c.l., dms., works lb. .13 - —
l.c.l., dms., works lb. .14 - —
tanks, works lb. .12 - —
Dioctyl phthalate, dms., c.l., frt. alld lb. .41½ —
l.c.l., frt. alld lb. .42½- —
tanks, frt. alld lb. .40 - —
Diorthotolylguanidin, dms., ton lots, dlvd lb. .48 - —
smaller lots, dlvd lb. .50 - —
Dioxan, dms., c.l., frt. alld lb. .25 - —
l.c.l., same basis lb. .25½- —
tanks, same basis lb. .23½- —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works lb. .34 - —
Dipenteue, dest.-dist., dms. incl., c.l., works, South gal. .35 - .53
l.c.l., same basis gal. .36 - .55
N. Y. whse gal. .46 - —
tanks, works, South gal. .20 - —
steam-dist., dms., c.l., works, South gal. .36 - —
l.c.l., works, South gal. .46 - —
dlvd. N. Y. gal. .52 - —
Diphenyl, bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - .20
Oxide, perfume grade, cns., dms. lb. .43 - .48
Diphenylamine, bbls. lb. .26 - —
Diphenylguanidin, dms., ton lots lb. .39 - —
smaller lots lb. .40 - —
Diphenylhydantoin-sodium, USP, dms. lb. 3.50 - 3.75
Dipropyleneglycol, dms., c.l., frt. alld lb. .14½- —
l.c.l., same basis lb. .15½- —
tanks, same basis lb. .13 - —
Dipropyleneglycol methylether, dms., c.l., frt. equald lb. .18 - —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16½- —
Ditertiarybutylmetacresol, dms., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —
Ditertiarybutylparacresol, dms., c.l., works lb. .94 - —
l.c.l., works lb. .95 - —
Divi-divi, 43% tannin, bgs., bls., c.l., U. S. ports, ex dock ton. 68.00 - —
Divinylbenzene, 18%, dms., c.l., works lb. .25 - —
l.c.l., works lb. .26 - —
tanks, works lb. .24 - —
40%, dms., c.l., works lb. .55 - —
l.c.l., works lb. .60 - .65
Dodecyltoluene, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Doggrass root, dom., cut, bls lb. .20 - .24
imp., NF, cut, bls lb. .25 - .30
Dogwood, Jamaica, bark, bls lb. .10 - .14
Dragon's blood, drops, cs lb. .45 - .47
mass, cs lb. 1.10 - 1.25
reeds, cs lb. 1.75 - 2.00
Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots:—
Blue, FD&C, No. 1, cns lb. 17.00 -17.60
No. 2, cns. lb. 17.00 -17.60
Green, FD&C, No. 1, cns. lb. 17.00 -17.60
No. 2, cns. lb. 22.20 -22.85
No. 3, cns. lb. 35.25 -35.90
Orange, FD&C, No. 1, cns. lb. 3.65 - 3.75
No. 2, cns. lb. 4.55 - 4.75
Red, FD&C, No. 1, cns. lb. 7.55 - 7.85
No. 2, cns. lb. 4.00 - 4.10
No. 3, cns. lb. 22.20 -22.85
No. 4, cns. lb. 7.20 - 7.50
No. 32, cns. lb. 5.30 - 5.40
Yellow, FD&C, No. 1, cns. lb. 10.50 -11.05
No. 3, cns. lb. 3.30 - 3.40
No. 4, cns. lb. 3.30 - 3.40
No. 5, cns. lb. 4.00 - 4.10
No. 6, cns. lb. 4.00 - 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots:—
Black, D&C, No. 1, cns. lb. 10.95 - —
Blue, D&C, No. 4, cns. lb. 13.55 - —
Brown, D&C, No. 1, cns. lb. 16.10 - —
Green, D&C, No. 5, cns. lb. 16.10 - —
No. 6, cns. lb. 16.10 - —
No. 7, cns. lb. 14.80 - —
Orange, D&C, No. 3, cns. lb. 10.95 - —
No. 4, cns. lb. 20.05 - —
No. 5, cns. lb. 5.70 - —
No. 10, cns. lb. 20.70 - —
Red, D&C, No. 8, cns. lb. 3.75 - —
No. 9, cns. lb. 3.75 - —
No. 10, cns. lb. 3.00 - —
No. 11, cns. lb. 2.25 - —
No. 12, cns. lb. 3.00 - —
No. 17, cns. lb. 10.95 - —
No. 18, cns. lb. 24.00 - —
No. 21, cns. lb. 4.70 - —
No. 22, cns. lb. 10.95 - —
No. 28, cns. lb. 24.65 - —
No. 33, cns. lb. 17.45 - —
Violet, D&C, No. 1, cns. lb. 16.10 - —
No. 2, cns. lb. 16.10 - —
Yellow, D&C, No. 7, cns. lb. 10.95 - —
No. 8, cns. lb. 10.95 - —
No. 10, cns. lb. 13.50 - —
No. 11, cns. lb. 13.50 - —
No. 22, cns. lb. 9.15 - —
No. 33, cns. lb. 14.65 - —
No. 37, cns. lb. 13.55 - —
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots:—
Green, Ext. D&C, No. 1, cns. lb. 16.10 - —
Red, Ext. D&C, No. 1, cns. lb. 13.50 - —
Yellow, Ext. D&C, No. 1, cns. lb. 10.95 - —
Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).
20 Chrysodine G. lb. .59 - —
27 Orange G. lb. .71 - —
31 Amido naphthol red G. lb. .59 - —
36 Alizarine yellow 2G lb. .76 - —
40 Alizarine yellow R lb. .97 - —
57 Amido naphthol red 6B lb. .90 - —
79 Ponceau R lb. .68 - —
151 Orange II lb. .44 - —
165 Red lake C lb. 1.05 - —
176 Red lake A lb. .80 - —
179 Azo rubine lb. .95 - —
180 Diamond blue 3B lb. .84 - —
185 Cochineal red A lb. .85 - —
202 Chrome blue black R lb. .62 - —
203 Chrome black T lb. .72 - —

Banking Practice and Private Formula Manufacture

Have Points in Common



Recently a developmental chemist in another Ohio city 'phoned one of our Vice-Presidents.

"George," he said, "I have developed a formula for a special hormone substance involving unusual laboratory data. I want to send you that formula to file with the various formulae in your vaults. By doing this, I will have mine on file as a protection against infringement. I intend to offer the product of this formula to certain national distributors for marketing. If one of them takes it, naturally, you will have the manufacturing business. Meanwhile, I'm protected."

"Okay," said our Vice-President, "But tell me, Joe, why did you pick on us?"

Quickly the answer came back.

"There's nothing strange about that. You have been in business 116 years. You handle thousands of different formulae for different manufacturers without violating any customer confidence. Each formula is secure in your vaults. If in 116 years you haven't developed the necessary integrity for such an operation, I don't know who has."

That is the story of Strong Cobb. Vaults full of individually owned formulae, because, whether we have developed the formula or the customer has, it is the customer's formula. Integrity built over 116 years of service *has* brought about customer confidence in our operations. Research control and manufacture are simply the structure which is built on the aforesaid cornerstone.

Strong Cobb & Co. Inc.
2654 Lisbon Road, Cleveland 4, Ohio

GEORGE MILLER
President

Dyes. Coaltar, General Use—Euphorbia, Pil

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).

208	Sulphon acid blue R	lb.	.83	—
216	Acid alizarin red B	lb.	.77	—
234	Resorcin brown	lb.	.82	—
246	Naphthol blue black	lb.	.78	—
278	Benzo fast red SBL	lb.	2.74	—
289	Sulphon cyanine 5R extra	lb.	1.00	—
299	Diamond black F	lb.	1.78	—
304	Nerol 2B	lb.	1.84	—
326	Benzo fast orange S	lb.	1.45	—
332	Bismarck brown R	lb.	.78	—
365	Chrysophenine	lb.	2.14	—
382	Diamine black BH	lb.	1.51	—
401	Diamine black BH	lb.	.58	—
406	Benzo blue 2B conc	lb.	.98	—
419	Diamine fast red F	lb.	1.05	—
420	Diamine brown M	lb.	.82	—
448	Benzo purpurine 4B	lb.	1.08	—
518	Diamine sky blue FF	lb.	1.48	—
561	Trisulphon brown B	lb.	1.78	—
581	Direct deep black EW extra	lb.	.81	—
593	Diamine green B	lb.	.60	—
598	Congo brown G	lb.	1.20	—
620	Sun yellow	lb.	.84	—
639	Xylene light yellow	lb.	1.77	—
640	Tartrazine	lb.	1.34	—
655	Auramine	lb.	1.69	—
657	Malachite green	lb.	1.93	—
662	Brilliant green	lb.	2.53	—
667	Brilliant milling green B	lb.	3.27	—
671	Glaucine	lb.	1.54	—
680	Methyl violet B	lb.	.95	—
681	Crystal violet	lb.	1.91	—
698	Formyl violet S4B	lb.	1.51	—
720	Chrome azurol B	lb.	3.60	—
729	Victoria blue B	lb.	2.68	—
737	Wool green S	lb.	2.14	—
749	Rhodamine B	lb.	3.85	—

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype):

814	Chloramine yellow	lb.	2.76	—
841	Safranine	lb.	2.58	—
865	Nigrosine WSJ 78	lb.	.56	—
922	Methylene blue GXX	lb.	1.28	—
969	Hydron blue R	lb.	.72	—
978	Sulphur black T extra	lb.	.28½	—
1027	Alizarin VI	lb.	.64	—
1034	Alizarin red S	lb.	2.30	—
1054	Alizarin saphiro B	lb.	2.30	—
1078	Alizarin cyanine green	lb.	2.61	—
1085	Alizarin blue black B	lb	2.13	—
1096	Indanthrene golden orange G, single paste	lb.	1.96	—
	double paste	lb.	3.92	—
1099	Indanthrene dark blue BO, single paste	lb.	1.72	—
1101	Caledon jade green	lb.	2.32	—
1106	Indanthrene blue RS, double paste	lb.	2.52	—
1113	Indanthrene blue GCD, double paste	lb.	1.72	—
1150	Indanthrene olive R, single paste	lb.	1.08	—
1151	Indanthrene brown R, single paste	lb.	1.65	—
	double paste	lb.	3.29	—
1212	Indanthrene red violet RH, single paste	lb.	1.54	—
1217	Helindon orange R, single paste	lb.	1.57	—
p-4	Acid anthracine brown P.G.	lb.	2.48	—
p-14	Anthracene chromate brown EB	lb.	1.25	—
p-24	Benzo fast black L	lb.	1.94	—
p-80	Diazo brilliant scarlet ROA	lb.	2.55	—
p-202	Zambesi black V	lb.	.97	—
p-244	Celliton scarlet B	lb.	1.25	—
p-313	Naphthol AS-SW	lb.	2.74	—

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.

Black, blue, No. 550	lb.	.72	—
Jet, No. 551	lb.	.79	—
Brown, R, conc	lb.	1.44	—
Orange R, brilliant	lb.	.80	—
Red 4 B, conc	lb.	1.22	—
Yellow, C	lb.	1.05	—
FN, conc	lb.	1.08	—

Dyes, coaltar, for stains, spirit-soluble, 100-lb dms., sellers' works.

Auramine, O	lb.	1.66	—
Black, basic, blue	lb.	1.08	—
Jet	lb.	1.08	—
Blue, methylene, 2 B, conc	lb.	1.44	—
Brown, Bismarck, R, conc	lb.	.78	—
Chrysoline, R, extra	lb.	.54	—
Y, extra	lb.	.58	—
Fuchsine, conc	lb.	2.84	—
Green, malachite, conc	lb.	1.80	—
Rhodamine, B	lb.	3.97	—
Safranine, Y, conc	lb.	2.66	—
Violet, methyl, B	lb.	1.08	—

Dyes, coaltar, for stains, water-soluble, 100-lb dms., sellers' works.

Black, acid blue, B extra	lb.	.76	—
Orange, acid, Y, conc	lb.	.43	—
Rhodamine, azo- R extra conc.			
Rhodamine, R, extra, conc	lb.	3.97	—
Scarlet, croceine, MOO	lb.	1.33	—
Yellow, azo-, conc	lb.	.32	—
Fast light, 3 G, extra	lb.	1.99	—
Methanil, conc	lb.	.83	—

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls	lb.	.45	.55
Egg albumen (see Albumen).			
Yolk, dried, dem., bbls	lb.	1.35	1.45
tanners, bbls	lb.	06½	07
Elder flowers, bright, bls	lb.	.40	.50
Elecampane root, bls	lb.	.22	.25
Elm bark, grinding, bls	lb.	.30	.35
powd., bbls., bxs	lb.	.40	.45
select, bndls	lb.	.55	.60
Emetine hydrochloride, USP, bots	oz.	38.75	42.00
Ephedra herb, bls	lb.	.25	.32
Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs	oz.	.98	—
hydrous, bots., 100 ozs	oz.	.92	—
Hydrochloride, tin, 100 ozs	oz.	.75	—
Sulphate, cryst., tins, 100 ozs.	oz.	.72	—
powd., tins, 100 ozs	oz.	.73	—
Epichlorohydrin, dms., c.l., works	lb.	.36½	—
l.c.l., works	lb.	.37	—
tanks, works	lb.	.35	—
Epinephrine, synth., USP, bots gram.		.45	.50
Epsom salt, tech., bgs., c.l., works, 100 lbs.		2.15	—
l.c.l., works, 100 lbs.		2.90	3.15
USP, cryst., bgs., c.l., works 100 lbs.		2.35	—
l.c.l., 5,000 lbs., 1 withdrawal, 100 lbs.		3.10	—
smaller lots, 100 lbs.		3.35	—
Ergot, NF, dms., tin-lined	lb.	3.00	Nom.
Eserine, bots.	oz.	45.0	50.00
Salicylate, USP, bots	oz.	50.00	55.00
Sulphate, bots.	oz.	35.00	36.00
Ether, acetate (see Ethyl acetate).			
Butyl, dms., c.l., dlvd	lb.	.30½	—
l.c.l., dlvd	lb.	.31	—
tanks, dlvd	lb	.29	—
Butyric (see Ethyl butyrate).			
Dichloroethyl, purif., dms., works, lb.		.46½	—
l.c.l., same basis	lb	.17	—
tanks, same basis	lb	.15	—
Divinyl, USP, anesthesia, bots., 50 cc, hospitals	bot.	1.00	—
75 cc, hospitals	bot.	1.56	—
Ethyl, absolute, ACS, dms	lb.	.30	—
anesthesia, USP, hospital, cns.	lb.	.75	.90
industrial, USP, dms., c.l., dlvd.	lb.	.10½	—
l.c.l., same basis	lb.	.12½	—
tanks, same basis	lb.	.08½	—
synthetic, dms., incl., dlvd. East,	lb.	.10½	—
l.c.l., same basis	lb.	.12½	—
tanks, same basis	lb.	.08½	—
Isopropyl, dms., c.l., dlvd	lb.	.06	—
l.c.l., dlvd	lb.	.06½	—
tanks, dlvd	lb.	.04½	—
Nitrous, conc., bots., 100 lbs	lb.	1.03	1.10
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld.	lb.	.10½	—
l.c.l., frt. alld	lb.	.11½	—
tanks, frt. alld	lb.	.09	—
95-98%, dms., c.l., frt. alld.	lb.	.10¾	—
l.c.l., frt. alld	lb.	.11¾	—
tanks, frt. alld	lb.	.09¼	—
99%, dms., c.l., frt. alld.	lb.	.11	—
l.c.l., frt. alld	lb.	.12	—
tanks, frt. alld	lb.	.09¼	—
synthetic, 85-90%, dms., c.l., frt. alld	lb.	.10½	—
l.c.l., frt. alld	lb.	.11½	—
tanks, frt. alld	lb.	.09	—
95-98%, dms., c.l., frt. alld.	lb.	.10¾	—
l.c.l., frt. alld	lb.	.11¾	—
tanks, frt. alld	lb.	.09¼	—
99%, dms., c.l., frt. alld	lb.	.11	—
l.c.l., frt. alld	lb.	.12	—
tanks, frt. alld	lb.	.09½	—
Acetoacetate, dms., c.l., dlvd	lb.	.47½	—
l.c.l., dlvd.	lb.	.48½	—
tanks, dlvd	lb	.46	—
Benzoate, dms	lb.	.63	—
Betaethoxypropionate dms. works	lb.	.70	—
Bromide, tech., 98%, dms	lb.	.39	.41
Butyrate, bots.	gal.	4.75	—
cns., works	lb.	.65	.70
dms., works	lb.	.60	—
Carbamate (see Urethane)			
Chloride, tech., tanks, frt. alld. East	lb.	.13½	—
USP, bbls., cyl	lb	.20	.22
Cinnamate, cns	lb.	2.20	3.60
Formate, dms	lb.	.38	—
Iodide, bots	lb.	4.08	4.27
Lactate, dms., works	lb.	.41	—
Methacrylate, M-2, dms., works	lb.	.60	—
cns., works	lb.	.63	.67
P-2, cns., works	lb.	.65	—
Myristate, dms., works	lb.	No prices.	
Nitrite (see Ether, nitrous).			
Oenanthate, dms	lb.	1.00	2.00
Oleate, dms., l.c.l., works	lb.	.53	—
Oxalate (see Diethyl oxalate).			
Silicate, dist. (see Tetraethyl-orthosilicate) 40% available SiO_2, dms. works	lb	.55	—
Ethylalphanaphthylamine, dms	lb.	.80	—
Ethylanilin, dms	lb.	.60	—
Ethylbenzene, dms., c.l.	lb.	.14	—
l.c.l.	lb.	.15	—
tanks	lb.	.13	—
Ethylcellulose, fib dms., 5,000 lbs., works	lb.	.52	—
smaller lots, works	lb.	.54	.65
Ethylene dichloride, dms., c.l., works, frt. alld. E. of Rockies	lb.	.09½	—
W. of Rockies	lb.	.10½	—
l.c.l. works, frt. alld., E. of Rockies	lb.	.10½	—
W. of Rockies	lb.	.11½	—
tanks, frt. alld. E. Rockies	lb.	.08	—
W. of Rockies	lb.	.09	—
Oxide, cyls., c.l., works	lb.	.23¾	.25
l.c.l., works	lb.	.24¾	.26
tanks, works and frt. equald. or alld	lb.	.15¾	.16¾
Trichloride (see Trichloroethane).			
Ethylenediamine, tanks, works	lb.	.50	—
Ethyleneglycol, dms., c.l., frt. alld. E.	lb.	.16	—
l.c.l., same basis	lb.	.17	—
tanks, same basis	lb.	.14½	—
Diethylether, dms., l.c.l., works	lb.	.50	—
Monobutylether, dms., c.l., works.	lb.	.21½	—
l.c.l., works	lb.	.22	—
tanks, works	lb.	.20	—
Monoethylether, dms., c.l., works.	lb.	.18	—
l.c.l., works	lb.	.18½	—
tanks, works	lb.	.16½	—
Monoethylether acetate, dms., c.l., works	lb.	.16½	—
l.c.l., works	lb.	.17	—
tanks, works	lb.	.15	—
Monomethylether, dms., c.l., works	lb.	.19½	—
l.c.l., works	lb.	.20	—
tanks, works	lb.	.18	—
Monomethylether acetate, dms., c.l., works	lb.	.24½	—
l.c.l., works	lb.	.25	—
tanks, works	lb.	.23	—
Monostearate, dms	lb.	.38	.40
Ethylethanolamines, mixed, dms., c.l., works	lb.	.32	—
l.c.l., works	lb.	.33	—
Ethylmorphine hydrochloride, USP, bots	oz.	11.85	—
Ethylorthotoluidine, bbls.	lb.	.80	—
Ethylvanillin, cns., 3 lbs. or more	lb.	6.75	—
smaller lots	lb.	6.80	6.90
Eucalyptol, USP, cns., dms	lb.	1.75	2.05
Eucalyptus leaves, bls	lb.	.10	.14
Eugenol, prime, USP	lb.	2.65	2.75
Euphorbia, pil., herb., bls	lb.	.18	.20

CELANESE* ACETIC ACID

OVERNIGHT DELIVERY BY TANK TRUCK

to all points in Southern Textile Areas

A new, up-to-the-minute service for the textile industry is now in operation with the completion of terminal facilities at Rock Hill, South Carolina. From this storage point, textile plants in the southern area can obtain overnight deliveries of the highest quality acetic acid—in tank truck quantities.

This southeastern source for acetic acid will give Celanese customers the benefits of bulk prices and the efficiency of less-than-tank-car shipments.

GLACIAL ACETIC ACID U. S. P.

Acetic Acid Content	99.5% by weight, minimum purity
Water Content	0.5% by weight, maximum
Freezing Point	15.6°C, minimum
Specific Gravity	1.050 to 1.055 @ 20/20° C.
Color	Water White
Formic Acid Content	0.05% by weight, maximum
Non-Volatile Matter	0.001% by weight, maximum
Iron Content	1.0 PPM by weight, maximum
Permanganate Time	2 hrs. min.

Also lower concentrations to 80%

CELANESE CORPORATION OF AMERICA
Chemical Division, Dept. 86-J
180 Madison Avenue, New York 16, N.Y.

Celanese* CHEMICALS

*Reg. U.S. Pat. Off.

ALCOHOLS • ALDEHYDES • GLYCOLS • KETONES • ACIDS • SOLVENTS • PLASTICIZERS • INTERMEDIATES

F

Feldspar, enamel, 100 mesh, bgs., works ..ton.20.00 -22.00
Glass, 20 mesh, bulk, tons, works ..ton.11.75 -12.50
bulk, c.l., works ..ton.18.00 -20.00
Pottery, bgs., 2 ton lots, works. ton.20.00 -22.00
bulk, c.l., works ..ton.17.00 -19.00
Fennel seed, Argentine, bgs ....lb. .16 - .16½
French, bgs ....lb. 12 - 12½
Indian, bgs ....lb. .13 - Nom.
Fenugreek, domestic, bgs. ....lb. No stocks.
Indian, bgs ....lb. .11 - .11½
futures, bgs. ....lb. .12 - .13
Moroccan, bgs ....lb. .08 - .09
Ferric-ammonium citrate (see iron-ammonium citrate).
Ferric cacodylate (see iron cacodylate).
Ferric glycerophosphate (see iron glycerophosphate).
Ferric hypophosphite (see iron hypophosphite).
Ferric sulphate (see iron sulphate, ferric).
Film scrap, colored, cs., works lb. .11 - —
water-white, cs., works ....lb. .13 - —
Fir balsam, Canada, cns ....gal.26.00 -32.50
Oregon, bbls ....gal. 2.35 - 2.45
Fishberries, ogs ....lb. .20 - .25
Fishliver oil (see Oil, fishliver).
Fishmeal, ground, 60% protein, bgs., Balto. area ..ton.175.00 - —
Fishscrap, dried, 60% protein, bulk, Balto. area ..ton.165.00 - —
Fleaseed (see Psyllium seed).
Fringetree bark, bls ....lb. .42 - .45
Fluorspar, acid grade, bgs., c.l., mines ..ton.47.50 - —
l.c.l., mines ....ton.49.50 - —
bulk, contract, c.l., mines ton.42.00 - —
noncontract, c.l., mines ton.45.00 - —
l.c.l., mines ....ton.47.00 - —
ceramic grade, No. 1, ground, 90-92% CaF_2, bulk, c.l., mines..net ton.39.00 -41.00
powd., 90-92% ....ton.41.00 - —
foundry grade, lump, 55-60%, ton.34.00 - —
washed, gravel, 70% or more, CaF_2, bulk, c.l., mines ton.35.00 -37.00
85%, bulk, c.l., mines ....ton.34.00 -36.00
60%, bulk, c.l., mines ....ton.33.00 -35.00
less than 60%, bulk, c.l., mines. ton.32.00 -34.00
Formaldehyde, USP (inhibited), dms., c.l., E. works lb. .0570- —
l.c.l., E. works ....lb. .0620- —
tanks, E. works ....lb. .0370- —
methanol-free (uninhibited), tanks, works ..lb. .0350- —

Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard, as well as W. of Rockies, prices f.o.b. Texas plants, are .022 for inhibited and .020 for uninhibited.

Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines..ton.30.00 - —
Tex., mines ....ton.27.00 - —
spent, bulk, Bayonne ....ton. 2.00 - 4.00
imp., bgs., c.l. ....ton.30.00 -40.00
Furfural, tech., dms., c.l., works lb. .12 - —
l.c.l., works ....lb. .14 - —
tanks, works ....lb. .09½- —
Fusel oil, refined, dms., c.l. ....lb. .23½- —
l.c.l. ....lb. .24½- —
tanks ....lb. .22 - —
Fustic extract, cryst., No. 2, bbls., l.c.l. lb. .42½- —
No. 1A, bbls., l.c.l. ....lb. .41½- —
No. 2, bbls., l.c.l. ....lb. .40½- —
No. 3, bbls., l.c.l. ....lb. .38½- —
liquid, No. 0, bbls., l.c.l. ....lb. .22 - —
No. 1, bbls., l.c.l. ....lb. .20½- —
No. 2, bbls., l.c.l. ....lb. .19½- —
No. 3, bbls., l.c.l. ....lb. .17 - —
solid, No. 1, bxs., l.c.l. ....lb. .28 - —

G

G salt, bbls ....lb. .59 - .60
Galangal root, bls ....lb. .15 - .18
Gambier, plantation, bgs., ex dock lb. No stocks.
Extract, bbls ....No stocks.
Gammapicoline, 95%, dms., c.l., works ..lb. 1.00 - 1.05
Gasoline, at refinery, ex tax, Arkansas, 80 octane, tanks.. gal. .10375- —
Bayonne, 83 octane, tanks.gal. .116 - —
Gulf coast, 80 octane, tanks.. gal. .10 - .11
Group 3, 80 octane, tanks.. gal. .10 - .10375
Pennsylvania, western, U. S. motor, 74-76 octane, leaded tanks ..gal. .12 - —
natural, 26-70 octane, group 3, tanks ..gal. .05875- —
Gelatin, silver label, cs., works lb. 1.20 - —
Gelsemium root, bls ....lb. .25 - .30
Gentian root, bls ....lb. .13 - .17
grd., bbls., bxs ....lb. .17 - .18
powd., bbls., bxs ....lb. .18 - .21
Gentistic acid ethanilamide, fib. dms., works ..lb.10.00 - —
Geraniol, extra, cns., dms ....lb. 2.50 - 2.75
prime ....lb. 2.20 - 2.40
Geranyl acetate, cns. ....lb. 2.65 - 3.90
Ginger, oleoresin, bots. ....lb. 4.50 - 4.75
Root, African, bls ....lb. .47 - .48
Cochin, bleached, bgs ....lb. No stocks.
unbleached, bgs ....lb. .20 Nom.
Jamaica, No. 1, bgs ....lb. .51 - .51½
No. 2, bgs ....lb. .50 - .51
No. 3, bgs ....lb. .46 - .46½
Rhattoon, bgs ....lb. .39½ Nom.
Ginseng root, cs ....lb.12.00 -16.00
Glauber's salt, anhyd. (see Sodium sulphate).
cryst., bgs., c.l., works. 100 lbs. 2.00 - —
l.c.l. bgs., works ....100 lbs. 2.25 - 2.50
Glue, bone, calcium type, 24 millipoise, 40 jellygrams, bgs., c.l., East of Midwest ..lb. .16 - —
65 jellygrams, bgs., c.l., same basis ..lb. .17½- —
80 jellygrams, bgs., c.l., same basis ..lb. .19 - —
110 jellygrams, bgs., c.l., same basis ..lb. .20 - —
130 jellygrams, bgs., c.l., same basis ..lb. .21 - —
Over 150 jellygrams, bgs., c.l., same basis ..lb. .24 - —

Bone glue, l.c.l., 1c. per lb. higher than c.l. ground, 40-45 jellygrams, bgs.,

c.l. (50,000 lbs.), dlvd ..lb. .18 - —
l.c.l., same basis ....lb. .19 - —
Hide, 100-121 (jellygrams), bgs., c.l., dlvd ..lb. .22 - .25
122-149, bgs., c.l., dlvd ....lb. .23 - .26
150-177, bgs., c.l., dlvd ....lb. .24 - .27
178-206, bgs., c.l., dlvd ....lb. .25 - .29
207-236, bgs., c.l., dlvd ....lb. .26 - .30
237-266, bgs., c.l., dlvd ....lb. .27 - .31
267-296, bgs., c.l., dlvd ....lb. .28 - .32
299-330 bgs., c.l., dlvd ....lb. .29 - .33
331-362, bgs., c.l., dlvd ....lb. .30 - .33
Glue, hide, 363-394, bgs., c.l., dlvd. lb. .31 - .34
395-427, bgs., c.l., dlvd ....lb. .32 - .35
428-460, bgs., c.l., dlvd ....lb. .33 - .36½
461-494, bgs., c.l., dlvd ....lb. .34 - .38
495-529, bgs., c.l., dlvd ....lb. .35 - .39

Hide glue, l.c.l., prices 1c. higher than c.l.; bbls., ½c. more than bgs.

Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd ..lb. .16¾- .18¾
soaplye, 80%, tanks, dlvd ..lb. .15¼- .16½
dynamite, dms., c.l., dlvd ....lb. .24 - —
l.c.l., dlvd ....lb. .24½- —
tanks, dlvd ....lb. .23½- —
high gravity, dms., c.l., dlvd ....lb. .24¼- —
l.c.l., dlvd ....lb. .24¾- —
tanks, dlvd ....lb. .23¾- —
refined, BP, 93%, dms., c.l., dlvd. lb. .25½- —
l.c.l., dlvd ....lb. .26 - —
tanks, dlvd ....lb. .25 - —
USP, c.p., 95%, dms., c.l., dlvd. lb. .24¾- —
l.c.l., dlvd ....lb. .25¼- —
tanks, dlvd ....lb. .24¼- —
yellow, distilled, dms., c.l., dlvd lb. .24½- —
lb. .24½- —
l.c.l., dlvd ....lb. .24¾- —
tanks, dlvd ....lb. .23¾- —
Glycine USP (see Acid, aminoacetic).
Glycol boriborate, dms ....lb. .28 - .30
Glyoxal, 30%, dms., c.l., works lb. .17½- —
l.c.l., works ....lb. .18 - —
tanks, works ....lb. .17 - —
Gold chloride, acid-brown, bots ..oz.22.00 -22.25
acid-yellow, bots ....oz.20.00 -20.25
Gold of pleasure seed, bgs ....lb. .40 .41
Goldenseal root, bls ....lb. 3.40 - 3.50
powd. bxs. ....lb. 4.25 - 4.50
Gold-sodium chloride, photo, bots. oz.13.50 -14.00
USP IX, bots ....oz.14.50 -15.00
Grains of paradise, bgs ....lb. .50 - .51
Graphite, imported, amorph., powd., bgs., dlvd ..lb. No prices.
crystalline, 88-90%, powd., bgs., ex whse ..lb. No prices.
90-92%, powd., bgs., ex whse. lb. No prices.
97%, powd., bgs., ex whse ..lb. No prices.
flake, No. 1, 90-95%, bgs., ctns., ex whse ..lb. No prices.
No. 2 whse ....lb. No prices.
Grease, house, loose, dlvd ....lb. .04⅝- —
White, choice, loose ....lb. .06 - —
Wool (see Degras and Lanolin).
Yellow, loose ....lb. .04⅞- —
Green, brilliant, thioflavin, toner, molybdic, kgs., works ..lb. 4.25 - 4.50
Tungstic, kgs., works ....lb. 4.25 - 4.50
16-20%, bbls., same basis. lb. .38½- —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd., N. of Tenn. and N. C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis ..lb. .37 - —
6-10%, bbls., same basis ..lb. .38 - —
11-15%, bbls., same basis ..lb. .39 - —
21-25%, bbls., same basis. lb. .39¼- —
26-30%, bbls., same basis ..lb. .39¾- —
31-35%, bbls., same basis ..lb. .41¾- —
36-40%, bbls., same basis ..lb. .43½- —
41-45%, bbls., same basis ..lb. .45 - —

Feldspar—Green, Chrome, Reduced

Green, chrome, c.p., color content, 46-50%, bbls., same basis ..lb. .46¾- —
50% and over, bbls., same ..lb. .47¾- —
reduced color, 5%, bbls., same basis ..lb. .13 - —
6-10%, bbls., same basis ..lb. .13¾- —
11-13%, bbls., same basis ..lb. .14¼- —
14-16%, bbls., same basis ..lb. .15 - —
17-19%, bbls., same basis ..lb. .15¼- —
20-21%, bbls., same basis ..lb. .15½- —
22-23%, bbls., same basis ..lb. .15¾- —
24-25%, bbls., same basis ..lb. .13¾- —
26-27%, bbls., same basis ..lb. .16¼- —
28-29%, bbls., same basis ..lb. .16¾- —
30-31%, bbls., same basis ..lb. .17¾- —
32-33%, bbls., same basis ..lb. .19 - —
34-35%, bbls., same basis ..lb. .20 - —
36-40%, bbls., same basis. lb. .22¾- —
41-45%, bbls., same basis ..lb. .25 - —
46-50%, bbls., same basis ..lb. .26½- —
51-55%, bbls., same basis ..lb. .26¼- —

The usefulness of every product in this list depends on

The uniform dependable purity of every one is typically

Mallinckrodt

Check the Mallinckrodt iodine compounds which are used in your products. Write to your nearest Mallinckrodt office for data and quotations.

Iodine Crude
Iodine U.S.P. Resublimed Crystals
Iodine U.S.P. Resublimed Granular
Iodine A.R.
Iodine Tincture Strong N.F.
Iodine Tincture U.S.P.
Acid Hydriodic Diluted U.S.P.
Acid Hydriodic Conc. Sp. Gr. 1.5
Acid Hydriodic Sp. Gr. 1.5 A.R.
Acid Iodic A.R.
Acid Iodic Anhydride A.R.
Ammonium Iodide N.F.
Ammonium Iodide A.R.
Arsenic Triiodide N.F.
Barium Iodide
Cadmium Iodide
Cadmium Iodide A.R.
Calcium Iodide
Collodion Photo Iodizer, White Label
Collodion Photo Iodizer, Orange Label
Ethyl Iodide A.R.
Ferrous Iodide
Ferrous Iodide Syrup N.F.
IODEIKON ® for cholecystography
Iodide Mixture (for mineral feeds)
Iodoform N.F. Powder Heavy
Iodoform N.F. Powder Light
IOFLOW ® (for mineral feeds)
Iodophthalein Sodium U.S.P.
IOMAG ® (for mineral feeds)
ISO-IODEIKON ® for cholecystography
Lead Iodide N.F.
Lithium Iodide
Mercurous Iodide Yellow N.F.
Mercuric Iodide Red N.F.
Mercuric Iodide A.R.
Methyl Iodide A.R.
Potassium Iodate
Potassium Iodate A.R.
Potassium Iodide U.S.P. Crystals
Potassium Iodide U.S.P. Granular
Potassium Iodide U.S.P. Powder
Potassium Iodide A.R. Crystals
Potassium Iodide A.R. Granular
Potassium Iodide Neutral A.R.
Potassium Mercuric Iodide N.N.R.
Silver Iodide
Sodium Iodate
Sodium Iodate A.R.
Sodium Iodide U.S.P.
STABILIDE ® (for mineral feeds)
Strontium Iodide U.S.P.
Thymol Iodide N.F.
Zinc Iodide N.F.

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Uniform • Dependable • Purity

Green, Chrome, Reduced Color—Hyssop Leaves

Green, chrome, reduced color, 56-60%, bbls., same basis	lb.	.26¾	—
61-65%, bbls., same basis	lb.	.27¾	—
66-70%, bbls., same basis	lb.	.29	—

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., works	lb.	.75	1.00
pure, bgs., frt. alld	lb.	.33	.40

Dyes (see Dyes, coaltar).

Malachite, thioflavin toner, molybdic, bbls., works	lb.	3.00	—
Tungstic, bbls., works	lb.	3.40	—

Paris (see P).

Phthalocyanin toner, bbls., works	lb.	4.40	5.00
Tungstated, brilliant, kgs	lb.	3.00	4.00
Emerald, kgs	lb.	2.60	—

Verdigris (see V).

Grindella robusta herb, bls	lb.	.24	.30
Guaiac resin, NF, cs	lb.	.60	.65
ordinary, cs.	lb.	.49	.51
Wood, bls	lb.	.35	.36
Guaiacol, cryst., tins	lb.	No prices.	
Liquid, NF, bots., cbys	lb.	1.90	1.95
Carbonate, dms	lb.	2.95	3.00
Guarana, powd., cs.	lb.	1.50	1.75

Gum, accroides (see Gum, yacca).			
Aloe (see A.)			
Ammoniac, tears, cs.	lb.	.90	.95
Arabic, amber, sorts, bgs	lb.	.13½	.14
powdered, USP, bbls	lb.	.20½	.21
Asafetida (see A).			
Asphalthum (see A).			
Benzoin, Sumatra, cs	lb.	.50	.70
Camphor (see C)			
Copal, Congo, No. 1, bgs	lb.	.25	.26
No. 2, bgs	lb.	.18	.20
No. 3, bgs	lb.	.13½	.15
Manila, loba, B, bgs	lb.	.25	.27
C, bgs	lb.	.23	.24½
CBB, bgs	lb.	.19	.20
CNE, bgs	lb.	.13½	.15
DBB, bgs	lb.	.16½	.17½
DK, bgs	lb.	.13	.14
dust, bgs	lb.	.07	.08
soft, MA, bgs	lb.	.11	.13½
WS, bgs	lb.	.21	.22
Philippine, pale, chips, bgs	lb.	.18½	.20½
nubs, bgs.	lb.	.22	.24
seeds, bgs.	lb.	.15	.16
sorts, bgs.	lb.	.17½	.19½
Pontianak, chips, bgs.	lb.	.22	.24
nubs, bgs	lb.	.32	.35
Dammar, Batavia, A/D, bgs	lb.	.28	.30
A/E, bgs	lb.	.23	.24
dust, bgs	lb.	.03½	.09½
E, bgs	lb.	.13½	.14½
East India, batu, bold, bgs	lb.	.10	.11
nubs & chips, bgs.	lb	.07½	.09
black, bold, bgs	lb.	.12½	.13½
unscraped, bgs.	lb.	.09½	.10½
nubs & chips, bgs.	lb.	.09½	.10½
pale, chips, bgs.	lb.	.13	.15
nubs, bgs	lb.	.25	.27

Gum, dammar, Singapore, No. 1, bgs	lb.	.36	.38
No. 2, bgs.	lb.	.22	.23
No. 3, bgs.	lb.	.10	.12
dust, bgs.	lb.	.09	.10
seeds, bgs.	lb.	.13	.14
Elemi, cns	lb.	.21	.22
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va.	lb.	.13	.13½
wood-rosin type, dms., c.l., dlvd. Ill., Ind., etc.	lb.	.13	.13½
Euphorbium, cs	lb.	.35	.40
Galbanum, cs.	lb.	.75	.80
Gamboge, pipe, cs	lb.	1.15	1.25
powd., bbls	lb.	1.35	1.40
Ghatti, No. 2, bgs	lb.	.35	.37
No. 3, bgs	lb.	.31	.33
Guaiac (see Guaiac resin).			
Karaya, powd., No. 1	lb.	.50	.51
No. 2	lb.	.46	.47
No. 3	lb.	.38	.39
Kauri, bgs	lb.	.31½	.32¾
Locust bean, powd., bgs	lb.	.30	.32
Mastic, cs.	lb.	1.80	1.90
Myrrh, cs	lb.	.35	.38
Olibanum, siftings, cs	lb.	.12	.13
tears, cs.	lb.	.16	.30
Opium (see O).			
Red (see Gum, yacca).			
Rosin (see R).			
Sandarac, cks.	lb.	.90	.95
Scammony, cs	lb.	1.50	1.55
Sterculia (see Gum, karaya).			
Talha, bgs	lb.	.10	.11
Tragacanth, No. 1, cs	lb.	2.75	3.00
No. 2, cs	lb.	2.50	2.75
No. 3, cs	lb.	1.75	2.00
powdered, USP, bbls	lb.	1.35	1.45
Yacca, bgs	lb.	.06	—

Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald	ton.	22.65	—
Harlem river, N. Y., frt. equald	ton.	28.25	—
Medicine Lodge, Kan., frt. equald	ton.	17.00	—
New Brighton, N. Y., frt. equald	ton.	30.65	—
Southard, Okla., frt. equald	ton.	17.00	—
Sweetwater, Tex., frt. equald	ton.	21.45	—
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald	ton.	12.50	—
Blue Rapids, Kans., frt. equald	ton.	10.50	—
Harlem river, N. Y., frt. equald	ton.	12.00	—
Medicine Lodge, Kan., frt. equald	ton.	12.50	—
New Brighton, N. Y., frt equald	ton.	18.00	—
Saltville, Va., frt. equald	ton.	9.00	—
Southard, Okla., frt. equald	ton.	12.50	—
Sweetwater, Tex., frt. equald	ton.	12.50	—
Stucco, paper bgs., Akron, N. Y., frt. equald	ton.	8.00	—
Blue Rapids, Kans., frt. equald	ton.	8.00	—
Clarence Center, N. Y., frt. equald	ton.	8.00	—
Fort Dodge, Iowa, frt. equald	ton.	8.00	—
Gypsum, Ohio, frt. equald	ton.	8.00	—
Grand Rapids, Mich., frt. equald	ton.	8.00	—
Harlem river, N. Y., frt. equald	ton.	8.00	—
National City, Mich., frt. equald	ton.	8.00	—
New Brighton, N. Y., frt. equald	ton.	8.00	—
Plasterco, Ga., frt. equald	ton.	8.00	—
Portsmouth, N. H., frt. equald	ton.	8.00	—
Roton, Texas, frt. equald	ton.	8.00	—
Saltville, Va., frt. equald	ton.	9.00	—
Southard, Okla., frt. equald	ton.	8.00	—
Sweetwater, Texas, frt. equald	ton	8.00	—
Terra alba, paper bgs., c.l., Harlem River, N. Y., works	ton.	22.50	—
New Brighton, N. Y., works	ton.	21.00	—

H

Hawthorn berries, bgs	lb.	.50	.57
Heliotropin, cryst., cns	lb.	2.85	3.05
Hellebore root, dom., green, bls	lb.	.80	.90
imp., black, whole, bls.	lb.	.20	.25
ground, bxs.	lb.	.25	.30
powder, bxs.	lb.	.27	.32
white, whole, bls.	lb.	.30	.40
powder, bxs.	lb.	.35	.45
Hematine extract, cryst., No. 0, bbls., l.c.l	lb.	.45½	—
No. 1, bbls., l.c.l.	lb.	.44½	—
No. 1A, bbls., l.c.l.	lb.	.41½	—
No. 2, bbls., l.c.l.	lb.	.40½	—
No. 3, bbls., l.c.l.	lb.	.38½	—
No. 4, bbls., l.c.l.	lb.	.36½	—
No. 5, bbls., l.c.l.	lb.	.34½	—
paste, No. 1, bbls., l.c.l.	lb.	.19	—
No. 2, bbls., l.c.l	lb.	.18	—
No. 3, bbls., l.c.l.	lb.	.17	—
No. 4, (red), bbls., l.c.l.	lb.	.12½	—
Hemlock bark extract, 25% tannin, bbls., c.l., works	lb.	No stocks.	
tanks, works	lb.	No stocks.	
Henbane leaves, bls.	lb.	.35	.45
Henna leaves, bls	lb.	.23	.25
powd., bbls., bgs.	lb.	.27	.29
Heptane, industrial, Bayonne, N. J., tanks	gal.	.16	—
group 3, tanks	gal.	.12½	.13¼
Hexalin (see Cyclohexanol).			
Hexamethylenetetramine, tech., bgs., 1,000-lb. lots, Perth Amboy or N.Y.C	lb.	.25	—
bbls.	lb.	.25½	—
smaller lots, bgs., same basis	lb.	.26	—
bbls.	lb.	.26½	—
USP, dms., 500 lbs., or more, same basis	lb.	.38½	—
smaller lots, same basis	lb.	.39½	—
Hexamine (see Hexamethylene tetramine).			
Hexane, industrial, group 3, tanks.	gal.	.13½	.14¼
Bayonne, N. J., tanks	gal.	.16	—
Hexanol, normal, dms., c.l., works.	lb.	.30½	—
l.c.l., works	lb.	.31	—
tanks, works	lb.	.29	—
Hexyleneglycol, dms., c.l., dlvd.	lb.	.14	—
l.c.l., dlvd.	lb.	.14½	—
tanks, dlvd.	lb.	.12½	—
Hexylresorcinol, USP, 100 lbs. up, frt. alld	lb.	19.00	—
works	lb.	19.00	27.75
smaller lots, frt. alld	lb.	20.00	21.50
works	lb.	20.00	33.50
Histamine diphosphate, USP, bots	kilo.	500.00	—
Histidine hydrochloride—laevo, NF, fib. dms., 50 kilo lots, works	kilo.	120.00	—
1-5 kilos, works	kilo.	130.00	—
Homatropine hydrobromide, USP, bots.	oz.	15.00	16.00
Hydrochloride, bots	oz.	20.00	22.00
Methylbromide, NF	oz.	13.00	16.25
Hoofmeal, 17-18% ammonia bulk, c.l., Chicago	unit-ton.	7.50	—
Hops, NF, bls.	lb.	.40	.45
Horehound, bls.	lb.	.12	.15
Hydrangea root, bls.	lb.	.14	.17
Hydrastine, bots	oz.	53.50	53.80
Hydrochloride, NF	oz.	29.50	36.00
Sulphate, bots	oz.	53.50	53.80
Hydrastinine, 10-grain bots	bot.	1.95	—
Hydrastis (see Goldenseal).			
Hydrofuramide, dms., fib. cans., works	lb.	.30	.40
Hydrogen peroxide, USP, bbls	lb.	03¾	.05
27½%, cbys., E. of Miss. or W. coast via Panama Canal	lb.	.17½	.19¼
35%, cbys., same basis	lb.	.23½	—
dms., c.l., same basis	lb.	.20½	—
l.c.l., same basis	lb.	.21½	—
tanks	lb.	.19¾	—
Hydroquinone, photographic, bbls., dms	lb.	.90	—
tech., dms.	lb.	70	—
Hydroxycitronellal, cns	lb.	5.35	6.50
Hyoscine salts (see Scopolamine).			
Hyoscyamine, bots.	oz.	15.75	16.00
Hydrobromide, bots.	lb.	16.50	18.00
Sulphate, bots.	oz.	13.50	14.00
Hypernic extract, cryst., No. 1, bbls., l.c.l	lb.	.56	—
No. 2, bbls., l.c.l	lb.	.48	—
liquid, No. 1, bbls., l.c.l	lb.	.30	—
No. 2, bbls., l.c.l	lb.	.25	—
solid, No. 1, bxs., l.c.l.	lb.	.44	—
Hyssop herb, bgs	lb.	.35	.45
Leaves, bgs.	lb.	.45	.50

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2. Freedom from cold check problems
3. Low viscosity formulations
4. Low specific gravity

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I

Iceland moss, bgs. ..... lb. .33 - .40
Ichthammol, F, dms. ..... lb. .75 - .85
Indian red (see Red, Indian).
Indigo, nat., chests ..... lb. 2.14 - 2.16
synth., paste, bots. ..... lb. .23 - —
powd., bbls. ..... lb. 1.03 - —
Indol, CP, bots. ..... lb. 17.00 -19.00
Inositol, tins, dlvd ..... lb. 5.00 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs ..... lb. 1.52 - 1.729
resubl., USP., bots., jars. ..... lb. 2.30 - 2.48
Iodochlorohydroxyquinolin, NF, dms. lb. 5.90 - —
Iodoform, NF, dms., kgs ..... lb. 4.39 - 4.74
Ionone, alpha, cns ..... lb. 4.40 -12.30
beta, cns ..... lb. 7.05 - 6.50
Methyl (see MD).
IPC, bots., 1-5 lbs ..... lb. 2.68 - 2.72
fib. dms., 100 lbs., ship't point. lb. 2.30 - 2.50
50 lbs., ship't point ..... lb. 2.40 - 2.52
10-25 lbs., ship't point ..... lb. 2.50 - 2.54
Ipecac root, bgs ..... lb. 4.25 - 4.50
powd., bgs. ..... lb. 4.65 - 4.90
Irish moss, bleached, prime, bls. lb. .16 - .18
Iron acetate, liquor, 25° bois., c.l., works lb. .09 - —
l.c.l., works lb. .09¾- —
solut., USP IX, cbys lb. .16 - —
dms. ..... lb. .17 - —
Cacodylate, NF, bots ..... lb. 13.50 -14.50
Chloride (ferric), anhydr., tech., dms., c.l., works 100 lbs. 5.75 - —
l.c.l., works 100 lbs. 6.50 - 7.50
cryst., tech., c.l., bbls., works. 100 lbs. 5.00 - 6.00
l.c.l., bbls., works 100 lbs. 5.50 - 8.00
USP, dms., works lb. .06¾- .08¼
solut., 42 Be, 100% basis, tanks, works. 100 lbs. 3.45 - —
Citrate, gran., dms ..... lb. .77 - .79
Gluconate, NF, dms ..... lb. .83 - .95
Glycerophosphate, N.F., powd. lb 4.25 - 4.35
Hypophosphite, NF, dms ..... lb. 2.80 - —
Iodide, bots ..... lb. 3.66 - 3.73
Naphthenate, liq., 6% Fe, dms., frt. alld lb. .21¼- .21¾
Oxalate, gran., dms lb. .83 - .85
Phosphate, soluble, NF, gran., cs. lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran., dms lb. .69 - .72
Reduced (see Iron by hydrogen).
Resinate, 7.4% Fe, dms., frt. alld. lb. .23 - —
Stearate, dms., c.l. lb. .34 - —
ton lots ..... lb. .35 - —
less ton lots ..... lb. .36 - —
Sulphate, ferric, anhyd., bgs., c.l., works ton. 28.50 - —
l.c.l., works ..... ton. 29.50 - —
ferrous, tech. (see Copperas).
USP, cryst., bbls., dms lb. .09¼- .10
Iron by hydrogen, kgs lb. .80 - .85
Iron-ammonium citrate, green, NF, gran., dms. lb. .55 - .58
brown, USP, gran., dms lb. .55 - .58
Oxalate, dms. lb. .25½- .26½
Iron-potassium oxalate fine gran., dms. lb. .30½- .33½
Iron-sodium oxalate, fine gran., dms lb. .25½- .28½
Isobornyl acetate, cns lb. .97 - 1.10
Isobutyl acetate, cns ..... lb. .82 - 1.25
Methacrylate, M-5, dms., works lb. .60 - —
cns., works lb. .63 - .67
P-5, cns., works ..... lb. .60 - —
Propionate, cns ..... lb. No prices.
Thiocyanocetate, dms., c.l., works. gal. 3.85 - —
l.c.l., works gal. 3.85 - 4.05
tanks, works ..... gal. 4.23 - —
Isobutyraldehyde, dms., works. lb. .50 - .53
Isoeugenol, cns. ..... lb. 3.10 - 3.40
Isoleucine, dextro-laevo, with allo-isoleucine, dms., works. lb. 28.00 -35.00
Isopentane, dms., works ..... lb. .45 - .55
Isophorone, dms., c.l., works. lb. .23½- —
l.c.l., works ..... lb. .24 - —
tanks, works ..... lb. .22 - —
Isopropanol (see Acohol, isopropyl).
Isopropyl acetate, dms., c.l., frt. alld. ..... lb. .10¼- —
l.c.l., same basis ..... lb. .11 - .11½
tanks, same basis ..... lb. .09 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether (see Ether, isopropyl).
Phenylcarbamate (see IPC).
c.l., frt. alld. E .....
Isopropylamine, dms., c.l., works. lb. .24 - —
l.c.l., same basis ..... lb. .25 - —
Isoquinoline, dms., c.l., works. lb. .20 - —
l.c.l., works ..... lb. .40 - —

J

Jaborandi leaves, bls. ..... lb. .15 - .20
Jalap root, NF, ois ..... lb. .40 - .45
powd., bbls., bxs ..... lb. .45 - .55
Resin, powd., bxs ..... lb. 7.15 - 7.25
Juniper berries, bgs ..... lb. .09 - .18
Tar, USP, dms ..... lb. .46 - .65

K

Kamala, powd., cns ..... lb. .47 - .49
Kaolin (see China clay).
Kava kava root, bls ..... lb. .25 - .30
Kerosene, at refinery; Ark., 42-44 specific gravity, w.w., tanks. gal. .07875- —
Bayonne, 41-43 s.g., w.w., tanks. gal. .09 - —
California, 40-43, a.g., w.w., tanks. gal. .121 - .136
Gulf ports, 41-43, s.g., w.w., tanks. gal. .083 - .0925
Okla.-Tex., 41-43, s.g., w.w., tanks. gal. .07623- .08875
Penn., 45 s.g., w.w., tanks. gal. .095 - .10
Kola nuts, bgs ..... lb. .08 - .10
Kyanite, imp., low iron content, 10-mesh, whse. ton. 85.00 -95.00
calcined, grain, 10-mesh, whse. ton. 95.00 -105.00

L

Lady slipper root, bls. ..... lb. 1.50 - 1.75
Lanolin, anhyd., cosmetic, dms., works lb. .31 - .33
pharmaceutical, USP, dms., works lb. .29 - .32
hydrous ..... lb. .28 - .30½
Lard, cash, tres., Chicago ..... lb. .12 - .12¼
Larkspur seed bg ..... lb. .35 - .40
Laurel berries, bls. ..... lb. .25 - .26
Leaves, Portuguese, futures, bls. lb. .13 - .13½
Greek, bls. ..... lb. .08 - .08½
Turkish, bls., recleaned ..... lb. .20 Nom.
Lavender flowers, medium, bls. lb. .55 - .60
ordinary, bls. ..... lb. .16 - .20
select, bls. ..... lb. .60 - .65

Lead acetate, white, crystals, obls., lb. .20 - —
gran., bbls. ..... lb. .20¾- —
powd., bbls. ..... lb. .20¾- —
USP, cryst., dms. ..... lb. .22 - .26
gran., powd., dms. ..... lb. .22¾- .26¾
Arsenate, dealers, basic powder, 3-lb. bgs., or larger, c.l., frt. alld. lb. .27 - .30
l.c.l., frt. alld ..... lb. .31 - —
1-lb. bgs., c.l., frt. alld. lb. .38 - .41½
l.c.l., frt. alld ..... lb. .39 - .42½
Lead arsenate prices are works or whse. basis frt. alld. on 96 lbs. or more to dest. East.
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld lb. .14 - —
l.c.l., works ..... lb. .15 - —
Carbonate (see Lead, white).
Chloride, fib. dms. ..... lb. .49 - —
Iodide, NF V, jars ..... lb. 2.94 - 3.13
Linoleate, liq., 13% Pb, dms., frt. alld. lb. .29½- —
Metal, pigs, prime, N. Y. ..... lb. .13 - —
E. St. Louis ..... lb. .1280- —
Metallic paste, dms., 20.000-40,000 lbs., works. lb. .28 - —
10,000-20,000 lbs., same basis lb. .28½- —
2,000-10,000 lbs., same basis lb. .29 - —
100 to 2,000 lbs., same basis. lb. .29½- —
Prices ex whse, Jersey City, N. J., 4½c. per pound hgher
Naphthenate, liquid, 16% pb, dms., dlvd. lb. .15¾- —
24% Pb, dms., dlvd ..... lb. .21¾- —
30% Pb, dms., dlvd ..... lb. .26½- —
Nitrate, bbls., c.l. ..... lb. .19 - —
l.c.l. ..... lb. .19¼- —
Oleate, fused, bbls ..... lb. .24 - —
Orthosilicate gel, 50% PbO, dms., works. lb. .30¾- —
60% PbO, dms., works ..... lb. .29¼- —

Lead peroxide, powd., tech., bbls., lb. .33 - .34
Phthalate, dibasic, dms., works lb. .39¼- —
Red, 95%, Pb_3O_4, or less, bbls., c.l., ship.t point, frt. alld. lb. .16¾- —
l.c.l., same basis ..... lb. .16¾- —
97%, Pb_3O_4, bbls., c.l., same basis lb. .15¾- —
l.c.l, same basis ..... lb. .16 - —
98%, Pb_3O_4, bbls., c.l., same basis lb. .17 - —
l.c.l., same basis ..... lb. .16¼- —
Resinate, precip., dms., dlvd ..... lb. .17¼- —
Salicylate, normal, dms., works lb. .25 - —
Silicate, bgs., l.c.l., ship't pt., frt. alld. lb. .41¼- —
Stearate, dibasic, dms., works. lb. .42¾- —
precip., bbls., c.l. ..... lb. .1515- .1575
ton lots ..... lb. .51½- —
less ton lots ..... lb. .36 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate). lb. .37 - —
tribasic, dms., works ..... lb. .38 - —
Tallate, liquid, 10% Pb, dms. lb. .26¼- —
solid, 30% Pb, dms ..... lb. .13½- —
White, basic carbonate, bgs., c.l., ship't point, frt. alld. lb. .21 - —
l.c.l., same basis ..... lb. .15⅝- —
basic silicate, bgs., c.l., ship't point, frt. alld. lb. .16⅜- —
l.c.l., same basis ..... lb. .14⅞- .17¼
basic sulphate, bgs., c.l., ship't point, frt. alld. lb. .15⅜- .16¼
l.c.l., same basis ..... lb. .14 - —
.15 - —

Iceland Moss—Lime, Chemical

Lecithin, edible, tech., bleached dms., non-ret., c.l., works. lb. .16 - —
l.c.l., same basis ..... lb. .18½- —
unbleached, c.l., same basis lb. .15 - —
l.c.l., same basis ..... lb. .17½- —
Lemon peel, ois ..... lb. .22 - .25
Leucine, dextro-laevo, dms., works lb. 28.00 -35.00
Licorice extract, mass, cns ..... lb. .45 - —
powd., bbls. ..... lb. .55 - —
Root, bls ..... lb. .08 - .09
5-lb. bundles, cs ..... lb. .40 - .45
powd., bbls ..... lb. .11 - .12
Lignin extract, tanning grade, bgs., c.l., works lb. .04¾- —
Lime, agricultural, bgs., works. ton. 13.00 -13.50
Chemical (quicklime), lump, pebbie, bulk, Adams, Mass. ton. 9.00 - —
Annville, Pa. ..... ton. 10.00 - —
Bellefonte, Pa. ..... ton. 10.00 - —
Buffalo, N. Y. ..... ton. 10.00 - —
Carey, Ohio ..... ton. 7.00 - —
Cedar Hallow, Pa. ..... ton. 9.50 - —
Farnams, Mass. ..... ton. 9.00 - —
Gibsonburg, Ohio ..... ton. 8.50 - —
Hannibal, Mo. ..... ton. 6.50 - —
Keystone, Ala. ..... ton. 9.75 - —
Knoxville, Tenn. ..... ton. 9.75 - —
Limedale, Ark. ..... ton. 9.00 - —
Longview, Ala. ..... ton. 9.75 - —
Martinsburg, W. Va. ton. 10.00 - —
Menominee, Mich. ..... ton. 8.00 - —
Mitchell, Ind. ..... ton. 7.50 - —
Rockland, Maine ..... ton. 9.00 - —
Scioto, Ohio ..... ton. 6.50 - —
Sherwood, Tenn. ..... ton. 10.00 - —
Sherwood, Wis. ..... ton. 8.50 - —
Woodville, Ohio ..... ton. 9.50 - —
York, Pa. ..... ton. 10.00 - —

MEDICINAL CREOSOTES and GUAIACOLS
CREOSOTE N.F.
CREOSOTE BEECHWOOD
CREOSOTE CARBONATE N.F.
POTASSIUM CREOSOTE SULFONATE
CALCIUM CREOSOTATE N.F. VII
GUAIACOL N.F.
GUAIACOL CARBONATE
POTASSIUM GUAIACOL SULFONATE
CALCIUM GUAIACOL SULFONATE
MAGNESIUM GUAIACOL SULFONATE
Extensively used in the manufacture of expectorants, antiseptics and analgesics, Heyden Medicinal Creosotes and Guaiacols are standards of quality for tonics, cough mixtures and other pharmaceutical and medicinal products.
Heyden offers a full line of highly refined and standardized creosotes and guaiacols to the drug and pharmaceutical industries.
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Benzaldehyde • Benzoates • Benzoic Acid • Benzyl Chloride • Bromides • Chlorinated Aromatics • Medicinal Creosotes • Formates • Formaldehyde • Formic Acid • Glycerophosphates • Medicinal Guaiacols • Hexamethylenetetramine • M. D. A. (Methylene Disalicylic Acid) • Paraformaldehyde • Parahydroxybenzoates • Penicillin • Pentaerythritols • Salicylates

Lime, Hydrated—Octanol

Lime, hydrated, paper bgs., Adams, Mass.	ton.	11.50	—
Annville, Pa.	ton.	13.50	—
Bellefonte, Pa.	ton.	13.50	—
Buffalo, N. Y.	ton.	13.50	—
Carey, Ohio	ton.	9.00	—
Cedar Hollow, Pa.	ton.	11.50	—
Engle, W. Va.	ton.	13.00	—
Farnams, Mass.	ton.	11.50	—
Gibsonburg, Ohio	ton.	9.50	—
Hannibal, Mo.	ton.	9.50	—
Keystone, Ala.	ton.	13.00	—
Knoxville, Tenn.	ton.	12.25	—
Limedale, Ariz.	ton.	10.50	—
Longview, Ala.	ton.	13.00	—
Manistique, Mich.	ton.	9.50	—
Marblehead, Ohio.	ton.	10.50	—
Mitchell, Ind	ton.	10.00	—
Petoskey, Mich	ton.	10.00	—
Port Island, Mich.	ton.	9.00	—
Rapid City, S. Dak.	ton.	12.00	—
Rockland, Maine	ton.	9.00	—
Scioto, Ohio	ton.	8.00	—
Sherwood, Tenn.	ton.	13.00	—
Sherwood, Wis.	ton.	10.00	—
Springfield, Mo.	ton.	9.00	—
Woodyville, Ohio	ton.	8.50	—
York, Pa	ton.	13.50	—
Spray, paper bgs., Adams, Mass	ton.	11.70	—
Annville, Pa	ton.	13.50	—
Bellefonte, Pa	ton.	13.50	—
Carey, Ohio	ton.	11.00	—
Engle, W. Va.	ton.	13.00	—
Farnams, Mass.	ton.	9.50	—
Gibsonburg, Ohio	ton.	10.00	—
Marblehead, Ohio	ton.	10.00	—
Rockland, Me.	ton.	10.00	—
Scioto, Ohio	ton.	10.00	—
Woodville, Ohio	ton.	10.00	—
York, Pa	ton.	13.50	—
Lime salts (see Calcium).			
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).			
Limestone, grd., bgs., works	ton.	3.50	4.00
Linalool, ex bois de rose	lb.	4.50	6.85
ex lignaloe wood	lb	6.50	7.00
Linalyl acetate, ex bois de rose, bots.	lb.	4.20	7.20
ex petitgrain, bots.	lb.	4.25	6.00
Lindane, 25%, works, cans	lb.	3.00	3.05
dms., works.	lb.	2.95	—
Linden flowers with leaves, bls.	lb.	.22	.25
without leaves, bls.	lb.	.22	.28
Linseed meal, 34% bulk, Midwest mills	ton.	61.00	-62.00
Litharge, com'l. powd., bbls., c.l., ship't point, frt. alld.	lb.	.14¾-	—
l.c.l., same basis	lb.	.15¾-	—
Lithium benzoate, dms	lb.	1.65	—
Bromide, NF, bbls., works, frt. equald.	lb.	1.90	—
Carbonate, NF, bbls., kgs	lb.	1.10	1.15
Chloride, dms.	lb.	1.00	—
Citrate, NF, bbls., dms., kgs.	lb.	1.25	- 1.40
Fluoride, bbls.	lb.	1.95	—
Hydroxide, dms.	lb.	1.10	—
Salicylate, dms.	lb.	1.62	1.70
Lithopone, ordinary, bgs., c.l., ship't point	lb.	.06¼	—
l.c.l., same basis	lb.	.06½-	.06⅝
Titanated (high-strength), bgs., c.l.	lb.	.08¼-	—
smaller lots	lb.	.08½-	—
Lithopone prices, Pacific Coast, ¾c. per lb higher.			
Liverwort leaves, bls.	lb.	.75	.80
Lobelia herb, bls	lb.	.80	- .85
leaves, NF	lb.	.85	- .90
Lobeline sulphate, bots., works	oz.	25.50	38.00
Logwood extract, crystals, No. 1, bbls., l.c.l.	lb.	.38½-	—
No. 2, bbls., l.c.l.	lb.	.36½-	—
liquid, No. 1, bbls., l.c.l.	lb.	.18½-	—
No. 2, bbls., l.c.l.	lb.	.17½-	—
No. 3, bbls., l.c.l.	lb.	.17	—
No. 4, bbls., l.c.l.	lb.	.16½-	—
solid, No. 1, bxs., l.c.l.	lb.	.33	—
No. 2, bxs., l.c.l.	lb.	.31	—
No. 3, bxs., l.c.l.	lb.	.28½-	—
No. 4, bxs., l.c.l.	lb.	.28	—
No. 5, bxs., l.c.l.	lb.	.26½-	—
No. 6, bxs., l.c.l.	lb.	.44½-	49⅛
Lovage root, imp., bls.	lb.	1.00	- 1.10
Lupulin, tins	lb.	1.95	- 2.00
Lycopodium, cs.	lb.	1.45	- 2.00
Lysine hydrochloride, dextro-laevo.	kilo.	145.00	-149.00

M

Mace, Amboyna, bls	lb.	.73	- .74
Banda, No. 1, bls.	lb.	1.05	-1.07 Nom.
Siauw, No. 1, bls.	lb.	.90	- .95
West Indian, bls.	lb.	.85	- .86
broken, bls.	lb.	.72	- .73
Madder, Dutch, bgs.	lb.	.29	.32
Magnesia, calcined, tech., ctns., works	lb.	.32	—
synth., rubber grade, ctns., works	lb.	.29	- .31
USP, light ctns.	lb.	.34	—
heavy, bbls.	lb.	.36	—
Magnesium arsenate, bgs., cans, works	lb.	.20	- .30
Bromide, jars	lb.	.90	1.00
Carbonate, tech., bgs., c.l., frt. equald	lb.	.09	—
l.c.l., frt. alld.	lb.	.10	—
bbls., c.l., frt. equald	lb.	.10¼-	—
l.c.l., frt. alld.	lb.	.11¼-	—
kgs., c.l., frt. equald	lb.	.11½-	—
l.c.l., frt. alld.	lb.	.12½-	—
USP, bgs., c.l., frt. equald	lb.	.10¾-	—
l.c.l., frt alld	lb	.11¾-	—
bbls., c.l., frt. equald	lb.	.11¼-	—
l.c.l., frt. alld.	lb.	.12¼-	—
kgs., c.l., frt. equald	lb.	.12½-	—
l.c.l., frt. alld.	lb.	.13½-	—
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila. county, Pa. Frt. equald. with N. Y. C. on all other destinations.			
Chloride, anhyd., dms., works	lb.	.12¼-	—
flake, bbls. c.l., works	ton.	40.00	—
l.c.l., works	ton.	44.00	-46.00
Gluconate, dms., cns.	lb.	1.86	- 1.93
Glycerophosphate, dms., works.	lb.	4.85	- 4.95
Hydroxide, NF, medicinal, bbls., dms., kgs	lb.	.29	- .30
Hypophosphite, dms.	lb.	1.60	—
Laurate, bbls	lb.	.46	.47
Metal, 99.8% ingots, cs., works.	lb.	.20½-	—
sticks, cs., works	lb.	.34	- .38
Oleate, fused, bbls	lb.	.31	—
Oxide (see Magnesia, calcined).			
Peroxide, 15%, dms., works	lb	1.00	- 1.05
Phosphate, tribasic, NF, bbls.	lb.	.75	—
Silicate (see Talc).			
Silicofluoride, bbls., works	lb.	.09	- .10
Stearate, ctns., c.l.	lb.	.35	—
smaller lots	lb.	.36	.37
Sulphate (see Epsom salt).			
Trisilicate, USP, dms., 1,000-lb. lots	lb.	.43	—
100-lb. lots	lb.	.50	—
Magnesite, chemical grade, bgs., c.l., mines, Calif.	ton.	67.50	—
dead-burnt, bulk, c.l., Chewalah, Wash.	ton.	30.50	—
Maleic anhydride, dms., c.l., frt. alld.	lb.	.30	—
l.c.l.	lb.	.31	—
Prices on maleic anhydride West of Rockies 1½c. higher.			
Malva flowers, black, bls.	lb.	1.00	- 1.25
Blue, bls.	lb.	.95	- 1.10
Leaves, bls	lb.	.35	- .40
Manacá root, bls	lb.	.49	- .50
Mandrake root, bls	lb.	.40	- .45
Manganese acetate, bbls.	lb.	.32	—
Arsenate, bgs.	lb.	.12	- .12½
Borate, tech., bbls.	lb.	.23	—
Carbonate, bbls	lb.	.19	—
Chloride, anhyd., dms., works	lb.	.18	- .19
Dioxide, African, battery, 84-87%, bbls., 28-40 tons, works	ton.	74.00	—
smaller lots, works	ton.	77.00	-82.00
burlap bgs., c.l., works	ton.	71.75	—
l.c.l., works	ton.	74.75	-79.79
paper bgs., c.l., works	ton.	70.00	—
l.c.l., works	ton.	73.00	—
85-90%, bbls., c.l., works	ton.	74.00	—
smaller lots, works	ton.	77.00	-82.00
Gluconate, dms., cns.	lb.	1.86	- 1.93
Glycerophosphate, NF, fib. dms	lb.	4.15	4.25
Hydrate, bbls., dlvd	lb.	.26	—
Hypophosphite, NF, dms	lb.	2.00	—
Linoleate, liquid, 4.35% Mn, dms	lb.	.39¼-	—
solid, precip., 8.2% Mn, bbls.,	lb.	.41½-	—
Metal, cs. dlvd. East	lb.	.30	.32
Naphthenate, liquid, 6% Mn, dms., frt. alld	lb.	.22¾	- .23⅛
Oleate, precip, bbls	lb.	.33½-	—
Resinate, fused, 3½% Mn, dms.	lb.	.20	—
precip., dms.	lb.	.21½-	—
Stearate, ctns., c.l.	lb.	.35	—
smaller lots	lb.	.36	.37
Sulphate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E.	ton.	60.00	—
l.c.l., dlvd. S. E.	ton.	67.00	—
feed grade, 80%, bgs., dlvd. S. E.	lb.	.05¼-	.07
75%, bgs, c.l., dlvd. S. E.	ton.	68.50	—
l.c.l., dlvd. S. E.	ton.	75.50	—
Tallate, liquid, 4% Mn, dms	lb.	No prices.	
solid, 8% Mn, dms	lb.	No prices.	
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock	ton.	No stocks.	
So. American, same basis	ton.	60.00	-62.00
Manna, flake, large, cs	lb.	1.25	1.35
small, cs	lb.	.85	1.00
Mannitol, com'l, dms., works	lb.	.40	.43
reagent, 50-lb. dms., works	lb.	.85	—
Marjoram, Argentine, bls	lb.	.14	Nom.
Chilean, bls	lb.	.25	- .25½
French, bls.	lb.	.36	- .37
Matico leaves, bls.	lb.	.25	- .33
Melamine, bgs., ton lots, works	lb.	.33	—
500 lbs. or more, works	lb.	.33½-	—
less 500 lbs., works	lb.	.38½-	—
Menadione, USP, bots., works	gram.	.06½	—
Menthol, natural, USP, Brazilian	lb.	11.35	-11.45
synthetic, USP, racemic, cns.	lb.	7.25	Nom.
Menthyl salicylate, tins	lb.	4.25	4.35
Mercaptobenzo thiazole, 50-lb. bgs., 150-lb. containers, works, frt. alld., ton lots	lb.	.27	—
less ton lots, same basis	lb.	.29	—
Mercury, ammoniated (see White precipitate).			
Bichloride (see Corrosive sublimate).			
Bisulphate, dms.	lb.	2.13	- 2.15
Chloride (see Calomel).			
Cyanide, NF, cryst., powd.	lb.	3.27	- 3.32
Iodide, red, NF, dms.	lb.	4.07	—
Yellow, NF, fib. dms.	lb.	4.22	—
Metal (see Quicksilver).			
Oxide, red, NF (see Red precipitate).			
yellow, tech. (see Yellow, mercury oxide).			
USP, fib. dms.	lb.	2.44	- 2.46
Mesityl oxide, dms., c.l., dlvd.	lb.	.13	—
l.c.l., dlvd	lb.	.13½-	—
tanks, dlvd	lb.	.11½-	—
Metaldehyde, dms., works	lb.	.78	—
Metachloranilin, dms., works	lb.	.75	—
Metacresol, 98%, dms., c.l., works.	lb.	.55	- .80
works, l.c.l.	lb.	.56	—
80-82%, dms., works	lb.	.35	—
70-75%, dms., works	lb.	.30	—
Metaparaisopropylphenol, dms., c.l.	lb.	.21	—
l.c.l., dms	lb.	.22	—
tanks	lb.	.20	—
Metanitroparatoluidin, bbls	lb.	1.28	- 1.33
Metaphenylenediamine, kgs	lb.	.76	—
Metatoluidine, bbls., works	lb.	.80	—
Metatolylenediamine, kgs	lb.	.85	—
Methanol, natural, dms., c.l., frt. alld	gal.	.58	—
l.c.l., frt. alld	gal.	.61	—
tanks, frt. alld	gal.	.50	—
Prices on natural methanol W. of Miss. 3c. higher.			
synthetic, eastern production, zone 1, dms., c.l., frt. alld.	gal.	.38	—
l.c.l., frt. alld	gal.	.41	—
tanks, frt. alld	gal.	.26	—
zone 2, dms., c.l., frt. alld.	gal.	.45	—
l.c.l., ex whse	gal.	47½-	—
tanks, frt. alld	gal.	.31	—
Synthetic methanol zones are: Zone 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho, Mont., and Utah. Zone 2 is remainder of the U. S., west of above state boundaries, comprising Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.			
Texas production, Midwest and Gulf states, dms., c.l., works, frt. alld.	gal.	.38	—
tanks, frt. alld	gal.	.26	—
West of Rockies, dms., c.l., frt. alld.	gal.	.45	—
tanks, frt. alld	gal.	.31	—
Methenamine (see Hexamethylenetetramine).			
Methionine, dextro-laevo, fib. dms., works, 50-lb. or more	lb.	7.25	—
1 to 49-lb. lots, works	lb.	8.75	—
Methoxychlor, dealers, dms., cs., works	lb.	.81	—
Methyl abietate, non-ret. dms., c.l., dlvd., zone 1	lb.	.17	—
l.c.l., same basis	lb.	.17½-	—
hydrogenated, non-ret. dms., c.l., dlvd., zone 1	lb.	.17¾-	—
l.c.l., same basis	lb.	.17¾-	—
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio., Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn., St. Louis, Mo., Miss., Ala., Ga., Fla., S. C. and Tenn.			
Acetate, dms., c.l., dlvd., N. Y.	lb	.08	—
l.c.l., same basis	lb.	.08½-	—
Acetoacetate, dms., c.l., works	lb.	.49½-	—
l.c.l., same basis	lb.	.50	—
tanks, works	lb.	.48	—
Methyl acetoacetate prices frt. alld. W., ½c higher.			
Methyl acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. alld.	gal.	.60	—
l.c.l., same basis	gal.	.71	—
Natural methyl acetone group A prices W. of Miss. 3c. per gal. higher.			
Group B, dms., incl., E. Miss., frt. alld., any quantity	gal.	.50	—
synthetic, dms., c.l., works, frt. alld. E	gal.	.53	—
frt. alld. W.	gal.	.57	—
l.c.l., works, frt. alld. E	gal.	.56½-	—
frt. alld. W.	gal.	.60½-	—
works, frt. alld. E	gal.	.43½-	—
frt. alld. W.	gal.	.47	—
Methyl acetone, synth., East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four.			
Alcohol (see Methanol).			
Anthranilate, 500 lbs. or more	lb.	2.10	—
smaller lots	lb.	2.20	- 3.00
Benzoate, cns.	lb.	.55	- 1.20
Bromide, dealers, cns.	lb.	.69	- .71
cyls.	lb.	.60	- .78
Chloride, indust., cyl., works	lb.	.17	—
tanks, multi-unit, works	lb.	.13	—
single-unit, works	lb.	.10½-	—
refrigerator mfrs., cyls., dlvd.	lb.	.37	—
other consumers or service men, cyls., dlvd.	lb.	.42	—
Cinnamate, cns.	lb.	1.48	1.65
Formate, refd., dms	lb.	.35	40
tech., non-ret. dms., any quantity, works	lb.	.68	—
tanks, works	lb.	.07	—
Heptin carbonate, bots	lb.	36.00	-58.00
Iodide, bots., cbys	lb.	3.00	- 4.85
Lactate, dms., l.c.l., works	lb.	.35	—
Methacrylate, M-1, dms., works	lb.	.45	—
cns, works	lb.	.48	- .58
P-1, cns., works	lb.	.60	—
Parahydroxybenzoate, USP, bots.	lb.	2.10	- 2.20
fib. dms.	lb.	1.90	- 2.00
Roseanilin chloride, USP, bots.	lb.	5.15	- 5.30
Salicylate, USP, dms., 500 lbs.	lb.	.40	—
25-50 lbs.	lb.	.45	—
Testosterone, USP, 100 gms.	gm.	3.50	—
Methylal, refined, 95%, dms., c.l., works	lb.	.11	—
l.c.l., works	lb.	.12	—
tanks, works	lb.	.09	—
Methylamyl acetate, dms., c.l., dlvd.	lb.	.13	—
l.c.l., dlvd	lb.	.13½-	—
tanks, dlvd	lb.	.11½-	—
Ketone, dms., works	lb.	.70	—
Methylcellulose, special vis., (4,000 cps.), fib. cns., c.l., frt. alld.	lb.	.68	—
2,000 lbs. and more, same basis	lb.	.70	—
smaller lots, frt. alld. on 100 lbs.	lb.	.75	.80
standard vis., (15-1,500 cps.), fib. ctns., c.l., frt. alld	lb.	.62	—
2,000 lbs. and more, same basis	lb.	.63	—
smaller lots, frt. alld. on 100 lbs.	lb.	.68	.73
Methylene blue, USP, 100-lb. lots, kgs., frt. equald	lb.	2.87	—
smaller lots, kgs., same basis	lb.	3.02	3.22
Chloride, indust., dms., c.l., dlvd. E	lb.	.12½-	—
l.c.l., dlvd E	lb.	.13½-	—
tanks, dlvd. E	lb.	.11½-	—
Methylethyl ketone, dms., c.l., dlvd.	lb.	.10½-	—
l.c.l., dlvd	lb.	.11	—
tanks, dlvd	lb.	.09	—
Methylhexyl ketone, tech., dms., works	lb.	.60	—
Methylionone, A, cns.	lb.	6.55	- 8.80
D, cns	lb.	7.50	- 9.35
prime, cns	lb.	4.55	- 6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl).			
Ketone, dms., c.l., dlvd	lb.	.12½-	—
l.c.l., dlvd	lb.	.13	—
tanks, dlvd	lb.	.11	—
Methylnaphthyl ketone, cns.	lb.	3.00	- 3.75
Methylparaben (see Methylparahydroxybenzoate).			
Methylpentanediol (see Hexyleneglycol)			
Methylthionine chloride (see Methylene blue).			
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works	lb.	.03½-	—
roofing, 20 to 80 mesh, works	lb.	.03⅜-	—
wet-grd., biotite, bgs., c.l., works, frt. alld. E	lb.	.05½-	—
l.c.l., ex whse., or frt. alld. E	lb.	.06¼-	—
extra fine, bgs., c.l., works, frt. alld. E	lb.	.05½-	—
l.c.l., ex whse. or frt. alld. E	lb.	.06¼-	—
paint or incp., bgs., c.l., works, frt. alld. E	lb.	.07	—
l.c.l., ex whse. or frt. alld. E	lb.	.07¾-	—
rubber, bgs., c.l., works, frt. alld. E	lb.	.06¾-	—
l.c.l., ex whse. or frt. alld. E	lb.	.07¼-	—
wallpaper, bgs., c.l., works, frt. alld. E	lb.	.07	—
l.c.l., ex whse. or frt. alld. E	lb.	.07¾-	—
white, extra fine, bgs., c.l., works, frt. alld. E	lb.	.07	—
l.c.l., ex whse. or frt. alld. E	lb.	.07¾-	—
Mica, wet-grd., W. of Miss. R., ½c. higher. W. of Rockies, 1c. higher.			
Milk powder, skimmed, roller, bbls., c.l.	lb.	.11½-	.13¼
spray, bbls., c.l.	lb.	.12¾-	.14¼
Whole, roller, bbls., c.l.	lb.	.28	- .33
spray, bbls., c.l.	lb.	.29½-	.35¼
Sugar, crude, bgs., c.l., works	lb.	.16½-	—
edible, bbls., works, 30,000-lb. lots	lb.	.24	—
2,000-lb. lots	lb.	.24¾-	—
200-1,800-lb. lots	lb.	.25¼-	—
USP, bbls., works, 30,000-lb. lots	lb.	.26	—
2,000-lb. lots	lb.	.26¾-	—
200-1,800-lb. lots	lb.	.27¼-	—
Molasses, blackstrap, tanks	gal.	.08	- .08½
New Orleans	gal.	.06½-	—
Molybdate orange (see Orange molybdate).			
Mineral spirits (see Petroleum, mineral spirits).			
Molybdenum metal, 90% Mo., powd., kgs.	lb.	2.60	- 3.00
pure, kgs., works, basis Mo. content	lb.	.95	—
technical, kgs., works, basis Mo. content	lb.	.80	—
Monochlorobenzene, dms., c.l., works, frt. alld.	lb.	.07	- .08
l.c.l., works, frt. equald	lb.	.08	- .10
tanks, works, frt. equald	lb.	.06	- .06½
Monoethanolamine, dms., c.l., frt. alld. E	lb.	.27	—
l.c.l., same basis	lb.	.28	—
tanks, same basis	lb.	.25½-	—
Monoethylamine, dms., c.l., frt. alld., basis 100%	lb.	.21½-	—
l.c.l., same basis	lb.	.22½-	—
tanks, same basis	lb.	.20	—
Monomethylamine, 25%-40%, dms., c.l., works, basis 100%	lb.	.35	—
l.c.l., same basis	lb.	.35½-	.36
tanks, same basis	lb.	.31	—
Monomethylanilin, dms., works	lb.	.70	—
Monononylnaphthalene, dms., c.l., works	lb.	.14	—
l.c.l., works	lb.	.15	—
tanks, works	lb.	.13	—
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).			
Monosodium glutamate (see Sodium glutamate, monobasic).			
Phosphate (see Sodium phosphate, monobasic).			
Monotertiarybutylmetacresol, dms., c.l., works	lb.	.50	—
l.c.l., works	lb.	.51	—
tanks, works	lb.	.49	—
Morphine, cns.	oz.	12.35	-12.40
Acetate, cns.	oz.	9.85	9.90
Hydrobromide, cns.	oz.	9.50	—
Hydrochloride, NF, cns	oz.	9.90	—
Sulphate, USP, cns	oz.	9.90	—
Morpholine, dms., c.l., works	lb.	.59½-	—
l.c.l., works	lb.	.60	—
smaller containers, works	lb.	.75	—
tanks, works	lb.	.58	—
Mountain ash berries, bgs.	lb.	.65	- .75
Mullein flowers, cs.	lb.	1.25	- 1.30
Leaves, bls.	lb.	.12	- .16
Musk, nat., Tonquin, grains, bots.	oz.	25.00	-30.00
synthetic—Ambrette, 100 lbs.	lb.	5.40	—
25 lbs.	lb.	5.50	—
5 lbs.	lb.	5.65	—
Ketone, 100 lbs.	lb.	4.95	—
25 lbs.	lb.	5.05	—
5 lbs.	lb.	5.20	—
Xylol, 100 lbs.	lb.	1.60	—
25 lbs.	lb.	1 70	—
5 lbs.	lb.	1.85	—
Musk root, bls.	lb.	No prices.	
Mustard seed, Calif., brown, f.o.b. source	lb.	.08½-	.09
Danish, bgs., futures	lb.	.12¼-	.12½
Dutch, yellow, bgs., futures	lb.	.13¼-	.13½
English, yellow, bgs.	lb.	.12	- .12½
Montana, brown, bgs., source	lb.	.05¾-	.06
Oriental, bgs., source	lb.	.08	- .09¼
yellow, bgs., source	lb.	.12	- .12½
Washington, yellow, source, bgs	lb.	.12	- .12½
Myrobalans, J1, assorted, ex dock.	ton.	61.00	-62.00
J2, ex dock	ton.	52.00	—

N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).			
Solvent (see S).			
Naphthalene, dom., crude, 74°, bgs., bbls., frt. equald	lb.	.06	—
tanks, same basis	lb.	.0525-	—
78°, bgs., c.l., works, frt. equald	lb.	.0635-	—
l.c.l., same basis	lb.	.0660-	—
bbls., c.l., same basis	lb.	.0635-	—
l.c.l., same basis	lb.	.0660-	—
78°, dms., c.l., same basis	lb.	.0750-	—
l.c.l., same basis	lb.	.08	—
tanks, same basis	lb.	.0575-	—
refined, industrial, bbls., c.l., frt. equald	lb.	.10	—
bgs., c.l., same basis	lb.	.10½-	—
tanks, same basis	lb.	.09	—
balls, flakes, wholesalers, jobbers, 50-lb. cs., c.l., same basis	lb.	.12¼-	—
bbls., c.l., same basis,	lb.	.12	—
1-lb. pkgs., c.l., same basis	lb.	.14	—
Neocinchophen, USP, dms., works	lb.	7.00	7.35
Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y	ton.	14.25	—
pottery, 200 mesh, bulk, Rochester, N. Y.	ton.	18.25	—
Nepheline syenite in bgs., $3 per ton higher than bulk.			
Nerolin, cns	lb.	2.00	- 2.25
Niacin (see Acid, nicotinic).			
Niacinamide (see Nicotinamide).			
Nickel acetate, bbls., dlvd	lb.	.50	—
Carbonate, bbls., dlvd	lb.	.48	- .50
Chloride, bbls., dlvd	lb.	.23	—
Cyanide, bots., dms	lb.	1.75	- 2.00
Formate, bbls., ton lots, dlvd.	lb.	.43½-	—
Metal, electro cathodes, cs.	lb.	.40	—
Nitrate, bbls., works	lb.	.29½-	.30
Oxide, black, bbls	lb.	.42	—
Sulphate, bgs., c.l., dlvd	lb.	.18	—
l.c.l., dlvd	lb.	.18½-	—
Nicotinamide, USP, dms., works	kilo.	11.00	-11.30
Hydrochloride, dms., works	kilo.	10.50	-10.80
Nicotine sulphate, 40%, 56 lb. dms., dealers, frt. alld. over 50 lbs.	dm.	53.65	—
tins, 10 lbs., dealers, frt. alld. on cases of 6	tin.	11.80	—
Nikethamide, bots., cbys	lb.	5.50	- 6.60
Nitercake, bulk, works	ton.	No stocks.	
Nitrobenzene, dbl. dist., dms., c.l	lb.	.09	- .09½
l.c.l.	lb.	.10	- .11
tanks	lb.	.08	- .08½
Nitrocellulose, ester soluble, 30-35 cps., ¼, ½, 5-6, 15-20, 30-40, 60-80 and 125-175 secs., bbls., c.l., works, dry weight	lb.	.28	—
l.c.l., same basis	lb.	.29	- .31
18-25 cps., bbls., c.l., same basis	lb.	.30	—
l.c.l., same basis	lb.	.31	- .33
18-25 cps., 250-400 sec., and 600-1,000 secs., bbls., c.l., same basis	lb.	.32	—
l.c.l., same basis	lb	.33	- .35
spirit-soluble, 30-35 cps., ¼, ½, 5-8 and 40-50 secs., bbls., c.l., same basis	lb.	.33	—
l.c.l., same basis	lb.	.34	- .36
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra, but returnable.			
Nitroethane, dms., works	lb.	.30	—
Nitrogen solution, tanks, works, N	ton.	120.00	-126.23
Nitrogenous process tankage, bulk, works, ammo. unit	ton.	3.50	- 3.60
Sewage sludge, bulk, works, unit	ton.	3.25	+ .40
Nitromethane, dms., l.c.l., works	lb.	.30	—
Nitropropane, 1, dms., works	lb.	.30	—
2, dms., works	lb.	.30	—
Nutgalls, Aleppo, bgs.	lb.	.43	—
Chinese, bgs.	lb.	.38	—
Istrian, bgs.	lb.	.31	—
Nutmeg, East Indian, bgs.	lb.	.40	- .41
futures, bgs	lb.	.38	- .39
West Indian, bgs.	lb.	.29½-	.30
futures	lb.	.28	- .29
Nux vomica, bls.	lb.	.10	.13
powdered, bbls., bxs	lb.	.13	.14

O

Oakbark extract, 25% tannin, bbls., c.l., works	lb.	No stocks	
Octane, 100°-140° C, industrial grade, group 3, dms., c.l.	gal.	.19	—
l.c.l.	gal.	.21	.66
tanks	gal.	.15½-	—
10° C, Bayonne, N. J., tanks	gal.	16	—
Octanol, normal, tech., dms., c.l., dlvd.	lb.	.34½-	—
l.c.l., dlvd.	lb.	.36½-	—
tanks, dlvd.	lb.	.33	—

These Petrolite CROWN QUALITY MICRO-CRYSTALLINE WAXES

OFFER OUTSTANDING ADVANTAGES IN MANY FIELDS

HIGH MELTING POINTS
EXTREME HARDNESS
WIDE COLOR RANGE
EASY EMULSIFICATION

	MELTING POINT	PEN. WITH 100 GMS.	COLOR N.P.A.	ACID NUMBER	SAP. NUMBER
Crown Quality 200	190/195	10 Max.	Brown	Nil	Nil
500	190/195	10 Max.	2½ Max.	Nil	Nil
700	190/195	5 Max.	2 to 2½	Nil	Nil
1035	195/200	2 Max.	2 to 2½	Nil	Nil
EMULSIFIABLE WAXES*					
23	180/185	6 Max.	4½ to 6	20 to 25	55 to 65
36	180/185	8 Max.	5½ to 8	30 to 35	85 to 95

PASTE POLISHES
NO RUBBING POLISHES
PAPER MANUFACTURING
PACKAGING
PRINTING AND INK
RECORDINGS
COSMETICS
SHOE DRESSINGS
CARBON PAPER
ART SUPPLIES
CAN LININGS
FRUIT COATINGS

SAMPLES AND COMPLETE INFORMATION AVAILABLE ON REQUEST

Petrolite Crown Quality Waxes are 100% petroleum derivatives manufactured exclusively by Petrolite in the Petrolite refinery. Their wide range of useful characteristics is attained by carefully selecting the crude stocks to be refined, and by Petrolite's selective refining techniques. This specialized treatment has resulted in a line of high quality waxes, many of which are virtually unique developments.

*Petrolite EMULSIFIABLE WAXES possess the hardness, high melting characteristics and high gloss common to all Petrolite Waxes. Having appreciable acid and saponification values, they readily emulsify in combination with the common emulsifying agents.

ADVISORY SERVICE: In conjunction with its research program, Petrolite technicians are available for consultation on any problem relative to special applications or uses of Petrolite Wax.

QUANTITY SHIPMENTS IMMEDIATELY AVAILABLE

Petrolite

PETROLITE *Crown Quality* WAX

PETROLITE CORPORATION, LTD • WAX DIVISION

30 BROAD STREET, NEW YORK 4, NEW YORK REFINERY: BOX 390, KILGORE, TEXAS

PACIFIC CHEMICAL EXPOSITION

PWL-49-3

Oil, Abies Siberica—Oil, Pineneedle

Oil, abies siberica, cns. lb. 2.35 - 3.25
Almond, artificial, bitter, (see Benzaldehyde).
natural, bitter, F.P.A., bots. lb. 3.40 - 5.00
NF, bots. lb. 3.25 - 3.50
Sweet, dms., cns. lb. .70 - .95
Amyris, dms. lb. 1.55 - 1.95
Angelica root, bots. lb. 120.00 -190.00
Seed, bots. lb. 80.00 -100.00
Anilin (see A).
Anise, USP, Chinese, dms. lb. .89 - 1.25
Apricot kernel, USP, dms. lb. .42 - .60
Avocado, cns., dms lb. 1.00 - 1.10
Babassu, crude, tankcars lb. .17¼- —
Bay, NF, Puerto Rican, 50-55%, cns. lb. 1.20 - 1.50
55-60%, cns. lb. 1.20 - 1.60
West Indian, 50-55%, cns. lb. 1.20 - 1.60
Bergamot, artif., cns. lb. 2.00 - 4.25
natural, Italian, cns. lb. 4.40 - 4.95
Birchtar, crude, cns. lb. .95 - 1.76
rectified, NF, cns. lb 4.15 - 4.25
Bois de rose, Brazil. lb. 2.75 - 2.85
Mexican (see Oil, lignaloe wood).
Bone, dms., works. gal. .65 - .70
Cajeput, tech., dms. lb. 1.65 - 2.00
redistilled, USP, cns. lb. 2.20 - 4.50
Calamus, cns. lb. 20.00 -28.00
Camphor, natural, white, cns lb. .30 - .50
dms. lb. .25 - .50
Cananga, native, cns. lb. 2.75 - 3.55
rectified, cns. lb. 3.50 - 4.35
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns. lb. 3.65 - 6.50
Cardamom, NF, bots. lb. 54.00 -70.00
Cassia, USP, cns. lb. 1.80 - 3.00
Castor, blown, dms., c.l. lb. .20¼- —
dms., l.c.l. lb. .20¾- —
Oil, castor, standard, USP, dms., c.l. lb. .18¼- —
l.c.l. lb. .18¾- —
tanks lb. .17¼- —
refined and deodorized, dms., c.l. lb. .19¾- —
l.c.l. lb. .20¼- —
tankcars lb. .18¾- —
dehydrated, bodied, dms., c.l. lb. .22 - —
l.c.l. lb. .22½- —
tanks lb. .21 - —
unbodied, dms., c.l. lb. .21 - —
l.c.l. lb. .21½- —
tanks lb. .20 - —
hydrogenated, dms., c.l., works. lb. .28 - —
l.c.l., same basis lb. .27 - —
No. 3, tech., dms., c.l. lb. .17 - —
l.c.l. lb. .17½- —
tanks lb. .16 - —
sulphonated, 50% (48% fat), dms. lb. .12 - .13
75% (60-62% fat), dms lb. .15¾- .16¼
Cedarleaf, USP, cns., dms lb. 1.65 - 2.85
tech., dms. lb. 1.70 - 1.80
Cedarwood, cns. lb. .40 - .55
dms. lb. .34 - .50
Celeryseed, bots. lb. 15.00 -17.00
Chaulmoogra, NF, cns., dms lb. .55 - 70
Chinawood (see Oil, tung).
Cinnamon bark, bots. lb. 27.00 -60.00
Leaf, Ceylon lb. 1.50 - 1.75
Seychelle lb. 1.35 - —
Citronella, Ceylon, cns. lb. .90 - 1.40
Java type, cns lb. 1.70 - 2.10
Clove, USP, from Madagascar buds, cns., dms lb. 1.45 - 1.90
from Zanzibar, buds, cns., dms. lb. 1.70 - 2.20
Oil, coconut, crude, tanks, Atlantic ports lb. .14¼- —
Pac. Coast lb. .12¾- —
refined, Cochin type, tax incl., dms., l.c.l. lb. .20½- —
deodorized, tax incl., dms., l.c.l. lb. .15 - —
Cod, Newfoundland, dms lb. .09½- .10
Codliver, USP, dms gal. 1.50 - 1.60
Coriander, bots. lb. 29.00 -35.00
Corn, crude, tanks, works lb. .11½- —
foots, acid, 95%, tanks, dlvd. E lb. .04 - —
raw, 50%, tanks, dlvd. E lb. .01¼- —
refined, dms., New York lb. .16½- .17
tanks lb. .14¾- —
Costus, bots. oz. 35.00 - —
Cottonseed, crude, tanks, Southeast and Valley lb. .10¼- —
foots, acid 95%, tanks, dlvd. E lb. .03 - —
raw, 50%, tanks, dlvd. E lb. .01¼- —
refined, dms. lb. .16¼- .16¾
tankcars lb. .13⅞- —
Creosote (see Creosote, coaltar).
Croton, NF, cns. lb. 4.75 - 5.50
Crude (see Petroleum, crude).
Cubeb, cns. lb. 7.00 - 7.50
Cumin, bots. lb. 6.25 -11.50
Cypress, bots. lb. 11.00 -15.00
Degras (see D).
Dillseed, bots. lb. 6.75 - 9.50
Dillweed, bots., dms. lb. 5.65 - 7.50
Dip (see D).
Erigeron, cns. lb. 5.00 - 5.25
Eucalyptus, rectified, USP, 80-90%, cns. lb. .70 - 1.45
70-80%, cns. lb. .58 - 1.30
Fennel, sweet, cns. lb. 2.50 - 3.00
Fir, Canada, cns. lb. 1.85 - 1.95
Oil, fishliver, crude, for feeds or concentrating, 6,000 to 12,000 A units, dms. dms., 1,000,000 units. .13 - .14
15,000 to 20,000 A units, dms. 1,000,000 units. .14¼- .14½
25,000 to 35,000 A units, dms. 1,000,000 units. .16½- .17½
40,000 to 55,000 A units, dms. 1,000,000 units. .18 - .18½
prime, natural, or concentrate, 100,000 A units, dms. 1,000,000 units. .25 - .26
200,000 A units, dms 1,000,000 units. .30 - —
300,000 A units, dms 1,000,000 units. .33 - —
400,000 A units, dms 1,000,000 units. .35 - —
500,000 A units, dms 1,000,000 units. .38 - —
Fuel (see Petroleum fuel oil).
Fusel (see F).
Garlic, pure, bots. oz. 9.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns. lb. 10.50 -12.60
Bourbon, cns. lb. 12.50 -14.25
Turkish (see Oil, palmarosa).
Ginger, dist., bots. lb. 21.00 -27.50
Grapefruit lb. .80 - 1.25
Grease, No. 1, dms. lb. .10½- .11
extra, Winter, strained, dms lb. .11¾- .12¼
prime, burning, dms. lb. .12½- .13
Guaiacwood, cns. lb. 1.85 - 2.15
Hemlock, cns. lb. 1.65 - 2.75
Herring, crude, tanks, Pac. coast. lb. No prices.
Juniper berry, NF VIII, bots. lb. 3.00 - 7.00
twice rectified lb. 4.75 - 5.00
Tar, USP (see Juniper tar).
Wood, tech., cns lb. .65 - 1.00
Lard (see Oil, grease).
Laurel, bots. lb. 9.75 -12.50
Lavandin, cns. lb. 1.20 - 1.75
Lavender flower, French, 38-42% ester, cns. lb. 3.20 - 5.15
30-32% ester, cns lb. 2.20 - 3.25
Spike, Spanish, cns. lb. .90 - 1.60
Lemon, USP, Calif., cns. lb. 2.75 - 3.00
Messina lb. 2.50 - 5.00
terpeneless, bots lb. 32.00 -65.00
Lemongrass, cns., dms. lb. 1.70 - 2.40
Lignaloe seed, Mexican, cns. lb. 4.50 - 4.80
Wood, Brazilian (see Oil, bois de rose).
Mexican, cns lb. 2.75 - 5.20
Lime, distilled, Mexican, cns. lb. 6.05 - 6.75
West Indian, cns lb. 6.15 - 7.50
expressed, West Indian, cns. lb. 6.75 -10.50
terpeneless, bot lb. 56.00 -65.00
Linseed, raw, dms., c.l. lb. .1870- —
l.c.l. lb. .1930- .1970
tankcars lb. .1750- —
tankwagon lb. .1780- —
Boiled linseed oil .007 higher than raw.
Lubricating, at refinery, ex tax, Group 3, bright stock, 150-160 vis., 10-25 p.p. tanks. gal. .285 - —
neutral, 300 vis., No. 3, col., 0.10 pour, tanks. gal. .21 - .23
200 vis., No. 3, col., 15-25 pour, tanks gal. .18 - .19
145-155 vis., No. 3, color, 10-25 pour, tanks gal. .285 - —
Penna., W. cylinder, 600-650 flash, tanks gal. .33 - .34
600-650 steam refd., tanks. gal. .37 - —
neutral, 70°F, No. 3 color, 150 vis., 25 pour, tanks. gal. .37 - .39
200 vis., 25 pour, tanks. gal. .39 - .41
South Texas, neutral, pale, 200 vis., 2¼-4 pour, tanks. gal. .11 - .13
red. 200 vis., 4-8½ pour, tanks. gal. .11 - .12¼
Mace, dist., cns., dms lb. 3.70 - 4.00
Mandarin, Brazilian, cns. lb. 4.00 - 9.25
Italian, cns lb. 8.95 - 9.75
Menhaden, crude, tanks, Balto. lb. .06 - .06¼
refined, alkali, dms lb. .1280- —
kettle-bodied, dms lb. .1430- —
light-pressed, dms. lb. .1180- —
tanks lb. .1020- —
Mineral, white (see Oil, white, mineral).
Mirbane (see Nitrobenzene).
Mustard, synthetic, USP, cns. lb. 1.40 - 1.70
Seed, expressed, dms. lb. .18 - .18½
Neatsfoot, 15°, dms. lb. .28 - .28½
20°, dms. lb. .27 - .27½
30°, dms. lb. .21 - .21½
Neroli, French, bots. lb. 75.00 -390.00
Haitian, bots lb. 175.00 -200.00
Niaouli, cns. lb. 2.30 - 3.25
Nutmeg, dist., East Indian, cns., dms. lb. 3.70 - 3.85
West Indian, cns., dms. lb. 3.55 - 3.85
Ocotea cymbarum, dms. lb. .48 - .70
Oiticica, liquid, dms. lb. .24½- .25
Oleo, extra, tres. lb. .15 - —
Olibanum, bots lb. 4.50 - 6.25
extra fine, bots. lb. 6.25 -10.50
Olive, denat., dms. lb. 2.20 - 2.25
edible, Spanish, dms., duty-paid gal. 3.20 - 3.30
Moroccan, dms., duty-paid. gal. 2.90 - 3.00
foots, dms. lb. .15 - .15½
Orange, sweet, natural, dist., cns., lb. .30 - .60
expressed, USP, Brazilian, cns. lb. .80 - 1.25
Calif., cns. lb. .60 - 1.00
Florida, cns., dms. lb. .42 - 1.00
Messina, coppers lb. 3.25 - 5.00
West Indian, cns. lb. 2.25 - 3.75
sesquiterpeneless, bots. lb. 55.00 -135.00
Origanum, Spanish, cs lb. 2.40 - 3.50
Palm, Congo, dms. lb. .1160- —
tankcars lb. .10½- —
Palmarosa, cns. lb. 6.25 - 9.00
Palmkernel, crude, bulk, c.i.f. NY lb. No prices.
Paraffin, pale, 100-110 vis. at 100° F, tanks, East Coast refinery gal. .11½- —
Patchouli, dms lb. 13.50 -20.00
Peach kernel, USP (see Oil, apricot kernel).
Peanut, crude, tanks, Southeast lb. .11¼- —
foots, acid, 95%, tanks, dlvd. E lb. .03½ Nom.
raw, 50%, tanks, dlvd. E lb. .01¾ Nom.
refined, tanks, New York lb. .14½- —
drums lb. .16½- .17½
Pennyroyal, USP, dom., cns. lb. No stocks.
imported, cns. lb. 4.60 - 5.50
Peppermint, natural, dms. lb. 4.85 - 5.60
redist., USP, dms lb. 5.20 - 5.50
Persic, USP (see Oil, apricot kernel).
Perilla, crude, dms lb. No stocks.
Petitgrain, Paraguay, cns. lb. 2.15 - 2.80
Pimento berry, dms. lb. 3.85 - 6.00
leaf, cns. lb. 1.55 - 1.95
Pine, dest.-dist., dms., incl., c.l., works, South gal. .55 - —
l.c.l., works, South gal. .58 - —
ex whse., N. Y. C. gal. .67 - —
tanks, works, South gal. .45 - —
steam-dist., dms., ex whse., non-ret. dms., incl., l.c.l., ex whse., N.Y.C. lb. .09½- —
Pineneedle, Siberian (See oil, abies siberica).

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tubes—all metals

WIRZ specially designed elongated nozzle on large-diameter tube permits just the right flow of caulking compound. Gives your product greater convenience in use. Assures smoother, easier application. Keeps compound in proper working condition down to the last bit. WIRZ Caulk-Tip tubes can be furnished with round or beveled opening ... maximum 5/16". Fitted with plastic caps, Wirz Caulk-Tip Tubes are decorated with Wirz famous hard, resistant finishes which withstand dirt and hard usage. Minimum order 100 gross. Write today for quotation, giving us the consistency of your product, the size you wish to pack and the quantity you need. Wirz new Tube Catalogue #R available on request.

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Collapsible Metal Tubes • Lacquer Linings • Wax Linings • Westite Closures • Soft Metal Tubing • Household Can Spouts • Applicator Pipes • Compression and Injection Molding

Oil, putty, petroleum, heavy, dms.			
gal.	.18	-	—
tankwagon	.13½	-	—
light, dms	.36¼	-	—
tankwagon	.12½	-	—
Rapeseed, tankcars	.17		Nom.
Red, single dist., dms	.12¼	-	.13¼
tanks	.11	-	—
saponified, dms	.11½	-	.12½
double dist., dms	.14¾	-	.15¾
tanks	.13½	-	—
Rose, natural, Bulgarian, coppers	25.00	-	33.00
Rosemary, Spanish, tech., cns., dms	.90	-	1.50
USP, cns., dms	1.05	-	1.60
Rosin, first rectified, dms	.66	-	—
2d rectified, dms	.63	-	—
3d rectified, dms	.78	-	—
Rue, bots	3.25	-	5.00
Sage, clary, bots	14.80	-	16.00
Dalmatian, cns	2.75	-	3.15
Spanish, cns	1.05	-	3.50
Sandalwood, NF, cns	12.00	-	16.50
Sardine, crude, tanks, Pac. coast	.06	-	.06¼
refined, alkali, dms	.1280	-	—
kettle-bodied, dms	.1430	-	—
light-pressed, dms	.1130	-	—
tanks	.1020	-	—
Sassafras, artificial	.44	-	.65
natural, Brazilian (see Oil, ocotea cymbarum).			
domestic, USP, cns., dms	1.80	-	2.30
Savin, cns	2.30	-	2.75
Savory, cns	3.00	-	—
Seal, 2% acid, duty extra dms	.15		Nom.
Sesame, ref., dms., l.c.l.	.41	-	—
Shingle stain, bbls., c.l., works	.2185	-	—
l.c.l., works	.25	-	.29
tanks, works	.15	-	16
Snakeroot, Canada, cns	13.75	-	20.00
Soybean, crude, tanks, mills	.10¼	-	—
foots, acid, 95%, tanks, dlvd. E	.04	-	—
raw, 50%, tanks, dlvd. E	.02	-	—
refined, alkali, dms., c.l.	.11	-	—
l.c.l.	.1410	-	.1450
tanks	.1234	-	—
clarified, dms., c.l.	.1245	-	—
l.c.l.	.1310	-	.1350
tanks	.1134	-	—
edible, dms.	.14	-	.14½
tanks	.13	-	—
Spearmint, dms	3.10	-	4.10
Sperm, bleached, winter, 45°, tankcars	.1770	-	—
drums	.1670	-	.1920
natural winter 45°, tankcars	.16½	-	—
drums	.17½	-	.18
Spruce, cns., dms	1.65	-	2.75
Sunflower-seed, tnp., refined, tanks	No prices.		
semi-refined, tanks	No prices.		
Sweet birch, Northern, cns	4.50	-	7.00
Southern, cns	1.95	-	3.65
Tall, crude, tanks, works	ton.40.00	-	—
refined, dms., c.l., works	.06	-	—
l.c.l., works	.06¼	-	—
tanks, works	.05	-	—
Tallow, acidless, dms	.10½	-	.11
Tansy, dms	8.75	-	9.00
Tar, pine, coml., dms., incl., c.l., works, South	.045	-	—
l.c.l., works, South	.0473	-	—
whse., N.Y.C.	.0495	-	—
tanks, works, South	.033	-	—
rectified, NF, c.l., dms., incl., works, South	gal. .60		—
Tar acid (see T).			
Teaseed, dms	No stocks.		
Theobroma (see Cocoa butter).			
Thyme, NF, red, cns	2.05	-	3.35
white, cns	2.30	-	3.80
technical, white, cns	.35	-	1.00
Tung, dom., tanks, mills	.25½	-	.26
imported, dms., c.l.	.27¼	-	—
l.c.l.	.27¾	-	—
tanks	.25¾	-	—
Turkey red (see Oil, castor, sulphonated).			
Turpentine, rectified, NF, cns., dms	.35		.55
Vetiver, Bourbon, cns	12.00	-	15.00
Haitian, cns	10.00	-	15.00
Java, cns	12.00	-	15.00
Whale, ref., natural, dms	No stocks.		
Winter-bleached, dms	No stocks.		
Wheat germ, dms	gal. 10.00	-	13.50
White mineral, tech., 50-65 vis., dms., c.l., N. Y.	gal. .43	-	—
l.c.l., same basis	gal. .48	-	—
65-75 vis., dms., same basis,	gal. .44	-	—
l.c.l., same basis	gal. .49	-	—
USP, 80-90 vis., dms., c.l., same basis	gal. .45	-	—
l.c.l., same basis	gal. .50	-	—
125-135 vis., dms., c.l., same basis	gal. .53	-	—
l.c.l., same basis	gal. .58	-	—
145-155 vis., dms., c.l., same basis	gal. .60	-	—
l.c.l., same basis	gal. .65	-	—
175-185 vis., dms., c.l., same basis	gal. .62	-	—
l.c.l., same basis	gal. .67	-	—
200-210 vis., dms., c.l., same basis	gal. .65	-	—
l.c.l., same basis	gal. .70	-	—
335-345 vis., dms., c.l., same basis	gal. .69½	-	—
l.c.l., same basis	gal. .74½	-	—
Wintergreen, nat., Northern, cns.	lb. 7.00	-	14.50
Southern, cns	lb. 3.65	-	8.50
synthetic (see Methyl salicylate).			
Wood (see Oil, tung)			
Wormseed, NF, cns	lb. 3.45	-	3.85
Wormwood, cns	lb. 6.40	-	7.50
Ylang-ylang, Bourbon, bots	lb. 7.00	-	7.50
extra, bots.	lb. 10.00	-	11.00
Madagascar, bots	lb. 6.25	-	6.75
Olein, crude (see Oil, red).			
white, low titre, dms	lb. .14¾	-	.15¼
tankcars	.13½	-	—
Oleostearin, bbls	lb. .10½	-	.11
Olivine, aggregate, c.l., mines	ton. 7.00	-	9.50
crushed, 8 mesh, bulk, c.l., works	ton. 10.00		—
paper, bgs., c.l., works	ton. 12.00		—
Opium, USP, cns.	lb. 19.20	-	19.45
gran., USP, cns.	lb. 21.65	-	21.90
powd., USP, cns.	lb. 21.65	-	21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies	lb. 1.10	-	—
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul	lb. .32	-	—
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.			
Chrome dinitroanilin toner	lb. 1.15	-	—
Mineral, American, bbls., l.c.l., ship't point, frt. alld.	lb. .1910	-	—
Molybdate	lb. .44	-	—
Persian, bbls	lb. .30	-	.45
Orange flowers, nis	lb. 40		.45
Orange peel, bitter, Haitian, bis	lb. .13	-	.15
Sweet, bis	lb. .13	-	.17
Oregano, Mexican, bgs	lb. .11½	-	.12
Portuguese, bgs	lb. .18	-	.18½
Sicilian, bgs	lb. .18	-	.18½
Orris root, Florentine, bls	lb. .20	-	.25
powdered, bbls., bxs	lb. .26	-	.29
Verona, bls	lb. .16	-	.21
powdered, bbls., bxs	lb. .22	-	.23
Orthoaminobiphenyl, dms., c.l., works	lb. .32½	-	—
l.c.l., same basis	lb. .33	-	—
tanks, same basis	lb. .31	-	—
Orthoamylphenol, dms., t.c.l., works, lb.	.42	-	—
Orthoanisidin, bbls	lb. .80	-	—
Orthochloroanilin, dms. 10,000 lbs. or more	lb. .60	-	—
smaller lots	lb. .62	-	.67
Orthochloroparanitroanilin, dms., works	lb. .65½	-	.70
Orthochlorophenol, dms., c.l., frt. equald	lb. .27	-	—
l.c.l., same basis	lb. .28	-	—
Orthocresol, pure, 30° C, non-ret., dms., c.l., frt. equald.	lb. .1930	-	.2403
l.c.l., same basis	lb. .1960	-	.2435
ret. dms., c.l., same basis	lb. .1900	-	—
l.c.l., same basis	lb. .1930	-	—
29° C, non-ret., dms., c.l., same basis	lb. .1830	-	.2305
l.c.l., same basis	lb. .1860	-	.2335
ret. dms., c.l., same basis	lb. .1800	-	—
l.c.l., same basis	lb. .1830	-	—
25 to 27° C, non-ret. dms., c.l., same basis	lb. .1630	-	.2030
l.c.l., same basis	lb. .1660	-	.2110
tanks, same basis	lb. .1500	-	.1950
Orthodichlorobenzene, 50-lb. cns	lb. .12½	-	—
100-lb. cns	lb. .11½	-	—
dms., c.l., works, frt. alld. E. of Rockies	lb. .08½	-	—
l.c.l., same basis	lb. .09½	-	—
tanks, same basis	lb. .07	-	—
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.			
Orthoisopropyl N-phenylcarbanate (see IPC).			
Orthoisopropylphenol, dms., c.l.	lb. .29	-	—
l.c.l.	lb. .30	-	—
tanks	lb. .23	-	—
Orthonitroanilin, dms	lb. .50		.53
Orthonitrochlorobenzene, dms.	lb. .37		.43
Orthonitrobiphenyl, tech., dms., c.l., works	lb. .19½	-	—
l.c.l., works	lb. .20	-	—
tanks, works	lb. .18	-	—
Orthonitroparachlorophenol, cns	lb. .75	-	—
Orthonitrophenol, dms	lb. .66	-	.77
Orthonitrotoluene, dms.	lb. .12	-	—
Orthophenetidin, dms., works	lb. .90	-	—
Orthotoluidin, dms., c.l., works	lb. .19	-	—
l.c.l., same basis	lb. .20	-	—
tanks, same basis	lb. .18	-	—
Orthotolidin, distilled, kgs	lb. 1.10	-	—
Osage orange crystals, bbls., l.c.l	lb. .33½	-	—
extract, liquid, bbls., l.c.l	lb. .15½	-	—
Ouabaine, USP, nuts	gram. 3.00		4.00
Ox gall, conc., gran., 6b. dms., 5 lbs. and up	lb. 2.50	-	—
Oxyquinolin sulphate, cns., 100 lbs. works	lb. 4.25	-	—
smaller lots, works	lb. 4.30	-	5.00

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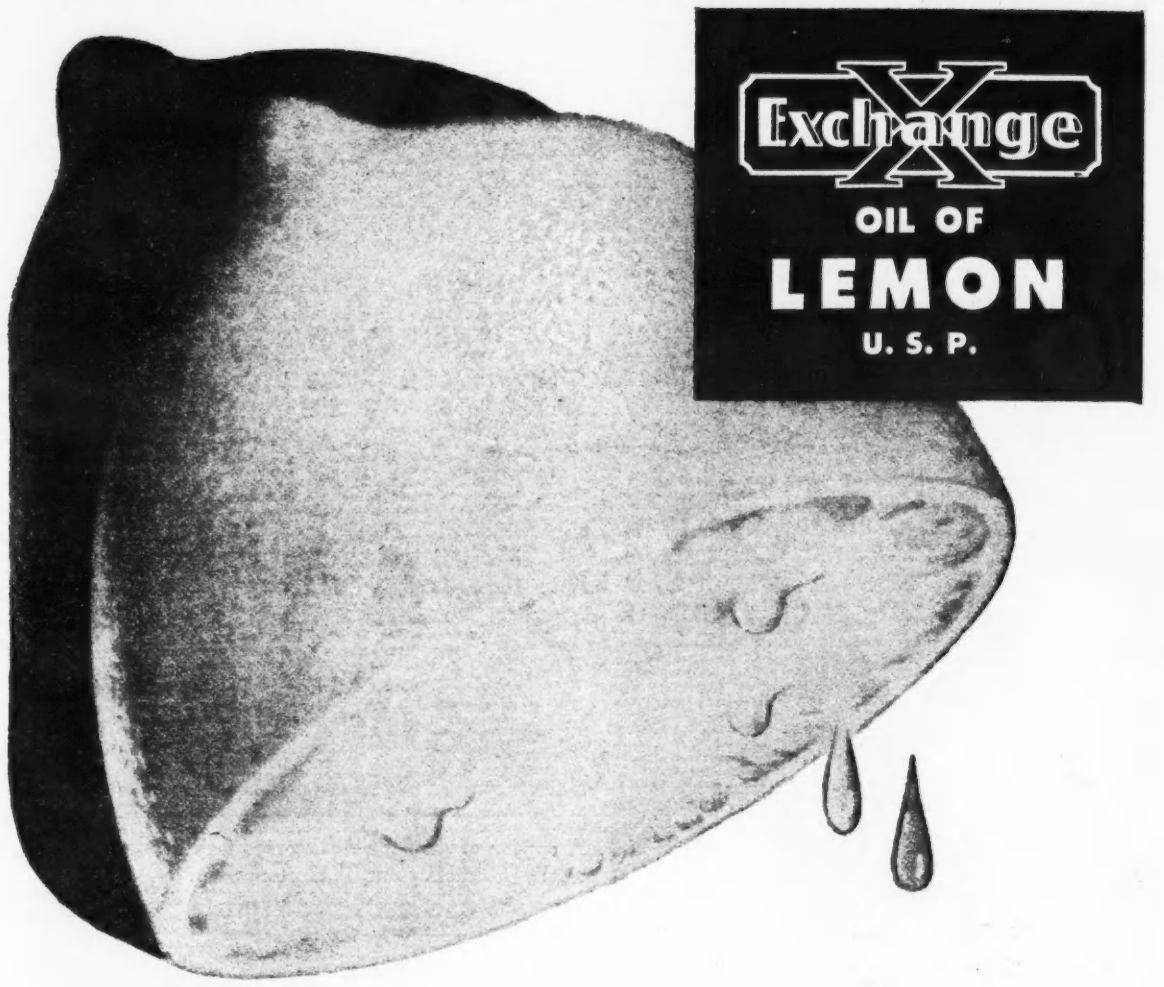
Pancreas substance, assay 1:75	lb. 5.75	-	6.25
Pancreatin, USP	lb. 2.50	-	3.00
Panthenol, bots., works, frt. adjust.	kilo. 90.00	-	—
Papain, powd., NF, cs	lb. 2.00	-	3.00
Papaverine, natural or synthetic, hydrochloride, USP, cns., 1,000-oz lots	oz. 5.00	-	—
smaller lots	oz. 5.05	-	5.20
Sulphate, cns	oz. 7.10	-	7.35

Oil, Putty—Paraffin

Paprika, Chilean, bgs	lb. .22	-	.24
Portuguese, bgs	lb. .39	-	.40
Spanish, bgs	lb. .41	-	.43
Para-anisidin, dms., works	lb. .80		—
Parachlorophenol, dms., c.l., frt. equald	lb. .27	-	—
l.c.l., same basis	lb. .28	-	—
Parachloroanilin, dms., frt. alld. E. Miss	lb. .70	-	—
Parachloro-orthonitroanilin, dms	lb.	No stocks.	
Paracresol, 98%, dms., works	lb. .50	-	.85
Paracymene, dms., works, 50 gals. or more	gal. 2.50	-	—
smaller quantities	gal. 3.00	-	—
Paradibromobenzene, bgs., 500-lb. lots			
Paradichlorobenzene, dms., c.l., works	lb. .11	-	—
l.c.l., same basis	lb. .12½	-	.14
Paraffin, crude, scale, white or yellow			
Paraffin, crude, scale, white or yellow, 119-121 ASTM, bbls., c.l., refinery	lb.	No prices.	
121-123 ASTM, bbls., c.l., ref'y	lb.	No prices.	
126-128 ASTM, bbls., c.l., ref'y	lb.	No prices.	
fully ref'd. slabs, 120-122 ASTM, loose, c.l., ref'y	lb. .0635	-	—
122-124 ASTM, loose, c.l., ref'y.	lb. .0635	-	—
125-127 ASTM, loose, c.l., ref'y.	lb. .0635	-	—
128-130 ASTM, loose, c.l., ref'y.	lb. .0640	-	—
130-132 ASTM, loose, c.l., ref'y.	lb. .0643	-	—
132-134 ASTM, loose, c.l., ref'y.	lb. .0660	-	—



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Paraffin, Fully Refined—Petroleum Naphtha, VM&P

Paraffin, fully refd., slabs, 135-137 ASTM, loose, c.l., ref'y. lb. .0705- —

Paraffin prices in bgs. and ctns., 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher, and under 1,000 lbs., 3.7c. per lb. higher.

Paraformaldehyde, 94-95%, powd., dms., c.l., works lb. .13 • —
10,000 lbs. to c.l., works lb. .14 • —
1,000-10,000 lbs., works lb. .15 • .18
1,000 lbs., works lb. .17 • —
100 lbs., works lb. .20 • —

Paraformaldehyde, 91-92%, flake, fib. dms., c.l., works lb. .11 • —
10,000 lbs. or more, works lb. .12 • —
smaller lots, works lb. .13 • —

Paraldehyde, tech., 98%, 55 gals., dms., l.c.l., works lb. .12½ .13½
5-10-gal. dms., l.c.l., works lb. .16½- —
tanks, works lb. .11 • —
USP, cbys lb. .51 • .53

Paranitroanilin, kgs., works lb. .44½- —

Paranitrochlorobenzene, kgs., works. lb. .18 • —

Paranitrophenol, kgs., works, frt. equald lb. .40 • —

Paratertiarybutylphenol, bgs., c.l., frt. equald lb. .21 • —
l.c.l., same basis lb. .22 • —

Parathion, tech., dms., works lb. 1.50 • 2.50

Paratoluenesulphonamide, bbls., works lb. .70 • —

Paratoluidin, bbls., works lb. .55 • —

Paretra brava root, whole, bgs. lb. .30 • .31
ground, bxs lb. .35 • .37
powder, bxs lb. .38 • .40

Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. E lb. .31 • —
l.c.l., same basis lb. .32 • .33

Passion flower herb, bls lb. .40 • .45

Patchouli leaves, bls lb. .40 • .45

Peanut meal, 45%, sacked, mills ton. 59.00 -60.00

Pectin, citrous, NF, powd., bbls lb. 2.05 • 2.06
tech., powd., bbls lb. 1.42 • 1.43

Penicillin, amorphous, calcium, USP, bulk, 100,000,000 to 25,000,000,-000 unit lots. 100,000 units. .04 • .05¼
Sodium, USP, unlabeled vials, 100,000 units vl. .09½- —
200,000 units vl. .14 • —
500,000 units vl. .29 • —
1,000,000 units vl. .56 • —
crystalline, potassium, unlabeled vials, 100,000 units vl. .102 • —
200,000 units vl. .15½- —
500,000 units vl. .34 • —
1,000,000 units vl. .67½- —
bulk, 100,000,000 to 25,000,000,-000, unit lots 100,000 units. .04½- .05¾

Procaine, regular or pulverized, bulk, 100,000,000 to 25,000,-000,000 unit lots 100,000 units. .05¼- .06½
sodium, unlabeled vials, 100,000 units vl. .10¾- —
200,000 units vl. .16 • —
500,000 units vl. .35 • —
1,000,000 units vl. .68½- —
bulk, 100,000,000 to 25,000,000,-000 unit lots 100,000 units. .05¼- .06¼

Pennyroyal leaves, bls lb. .28 • .30

Pentachlorophenol, dms., works lb. .20 • .25

Pentaerythritol, tech., bgs., c.l., works lb. .29 • —
l.c.l., works lb. .31 • .33

Di and tri-isomers (see Dipentaerythritol and Tripentaerythritol).

Pentane, industrial, tanks, group 3 gal. .10½- .11¼

Pepper, black, bgs lb. 1.36 - 1.37
nearby, bgs. lb. 1.35 - 1.36
January, bgs. lb. 1.05 - 1.07
Red, Carolina, futures lb. .50 - .51
Hontaka, bgs. lb. .65 Nom.
Louisiana longs, bgs lb. .18 Nom.
Mombasa chillies, bgs lb. .38 - .39
Niger, capsicum, bgs lb. .38 Nom.
birdseye, bgs. lb. .65 Nom.
White, bgs., futures lb. 1.95 - 1.96
Peppermint, USP, dom., bls lb. .50 - .70
imported, bls. lb. .80 • .90

Pepsin, NF, bulk containers lb. 3.90 • —

Perchloroethylene, dms., c.l., zone 1, works, frt. alld lb. .11 • —
zone 2, same basis lb. .11½- —
zone 3, same basis lb. .12 • —
zone 4, same basis lb. .12 • —
l.c.l., zone 1, same basis lb. .11¾- —
zone 2, same basis lb. .12¼- —
zone 3, same basis lb. .12¾- —
zone 4, same basis lb. .12¾- —
tanks, zone 1, same basis lb. .10½- —
zone 2, same basis lb. .11 • —
zone 3, same basis lb. .11½- —
zone 4, same basis lb. .11½- —

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N D., Okla., S. C., S. D.; (3) Colo., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont., (W), Nev., Ore., Utah, Wash.

Peru balsam, dms. lb. .85 • 1.00

Petrolatum, USP, amber, dms., c.l., New York lb. .04⅞- —
l.c.l., same basis lb. .05¾- —
Cream, dms., c.l., same basis lb. .06⅝- —
l.c.l., same basis lb. .08 • —
Extra amber, dms., c.l., same basis lb. .05⅛- —
l.c.l., same basis lb. .06 • —
white, lily, dms., c.l., same basis lb. .06⅞- —
l.c.l., same basis lb. .08¼- —
snow, dms., c.l., same basis, lb. .07⅛- —
l.c.l., same basis lb. .08½- —
soft, dms., c.l., same basis lb. .06⅜- —
l.c.l., same basis lb. .07½- —
Yellow, soft, dms., c.l., same basis lb. .05 • —
l.c.l., same basis lb. .05⅞- —

Petroleum, crude, bulk, at wells, California bbl. 1.25 - 2.99
Illinois bbl. 2.45 - 2.87
Kentucky bbl. 2.42 - 2.83
Louisiana-Arkansas bbl. 2.08 - 2.90
Montana bbl. 1.28 - 2.775
Oklahoma-Kansas bbl. 2.23 - 2.65
Pennsylvania, lower field bbl. 3.40 • —
Upper field bbl. 2.70 - 3.40
Texas, East bbl. 2.65 • —
Gulf coast bbl. 2.38 - 2.65
North, North-Central bbl. 2.23 - 2.65
Panhandle bbl. 2.23 - 2.65
West bbl. 2.10 - 2.65
Wyoming bbl. 1.28 - 2.875

Ether, laboratory, 30°-60° C, cns., dlvd. E gal. 1.50 • —
dms., c.l., group 3 gal. .26 • —
l.c.l., same basis gal. .44 • —
35°-60° C, 10-gal. cns., dlvd. E. gal. 1.50 • —
dms., c.l., Group 3 gal. .26 • —
l.c.l., same basis gal. .44 • —
40°-75° C, 10-gal. cns., dlvd. E. gal. 1.50 • —
dms., c.l., Group 3 gal. .26 • —
l.c.l., same basis gal. .44 • —
90°-160° C, ret. dms., ex tax, f.o.b. San Francisco gal. .57 • —

Fuel oil, bunker C, No. 6, California, heavy tanks, refinery bbl. 1.40 - 1.55
light, tanks, refinery bbl. 1.80 - 2.10
Eastern, tanks, Albany, N. Y. bbl. 2.25 • —
Baltimore, Md. bbl. 1.93 - 2.08
Boston, Mass. bbl. 1.98 - 2.13
Charleston, S. C. bbl. 2.03 - —
Jacksonville, Fla. bbl. 1.88 - 2.03
New York, N. Y. bbl. 1.93 - 2.08
Norfolk, Va. bbl. 1.93 - 2.08
Philadelphia, Pa. bbl. 1.93 - 2.08
Portland, Me. bbl. 1.98 - 2.13
Providence, R. I. bbl. 1.955 - 2.105
Savannah, Ga. bbl. 1.88 - 2.03

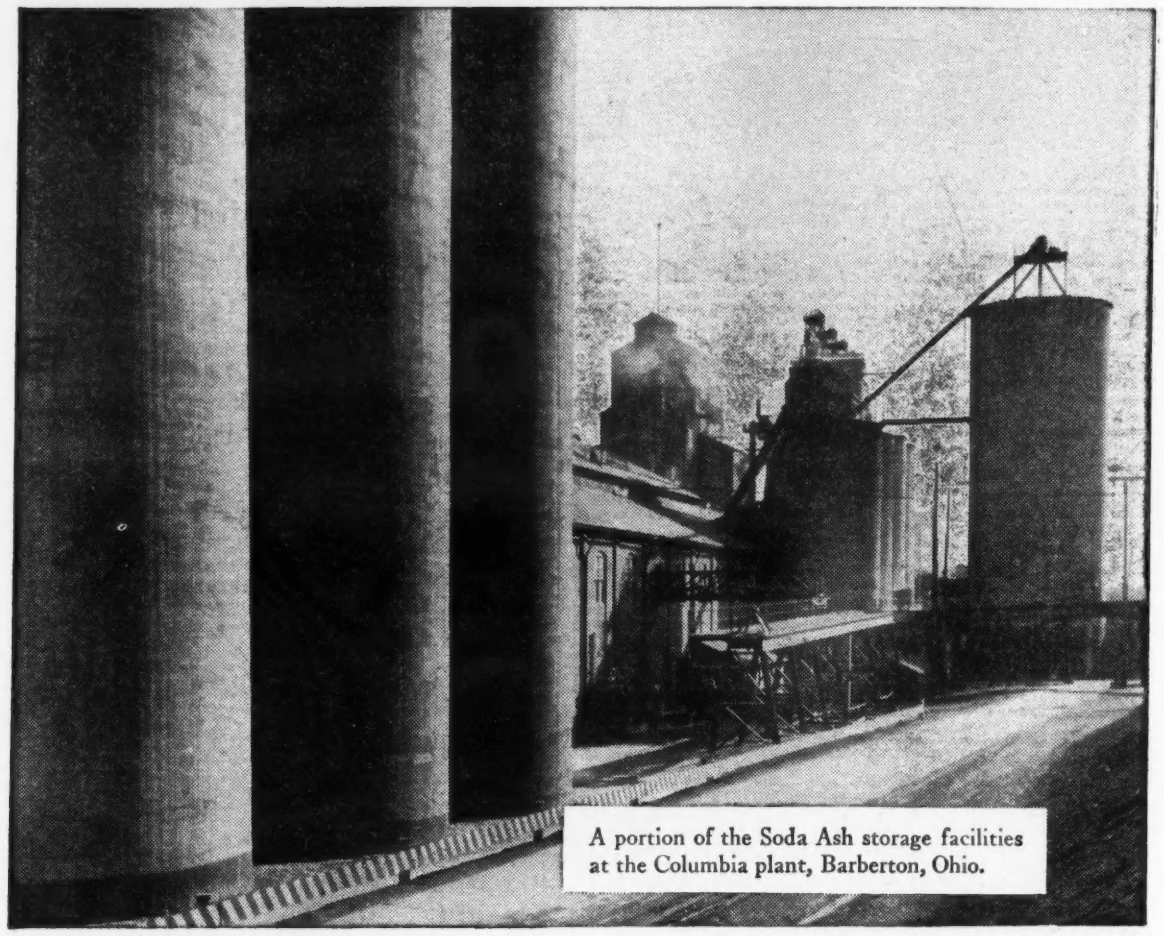
Diesel, tanks, refinery, California gal. .081 - .113
Pennsylvania gal. .0875- .09

Furnace, tanks, refinery, Arkansas, No. 2 gal. .0675- —
No. 3 gal. .06375- —
Bayonne, N. J., No. 2 gal. .086 - —
Group 3, No. 1 gal. .075 - .07875
No. 1, straw gal. .075 - .0775
No. 2, straw gal. .06625- .085
range gal. .07375- .0875
Pennsylvania, No. 1 gal. .0925- .095
No. 2 gal. .09 - .0925
No. 3 gal. .0875- .09

Lacquer diluent, California, 170-225 F, b.r., tanks, ex tax, f.o.b. Los Angeles gal. .147 - —
255 F, b.r., tanks, ex-tax, Portland, Ore gal. .158 • —
San Francisco gal. .152 • —
Seattle, Wash. gal. .158 • —
East coast, tanks, N. J. and N. Y. refinery gal. .16 • —
Group 3, benzol-type, tanks, refinery gal. .12125- —
toluol-type, tanks, refinery. gal. .11125- .11375

Mineral spirits, California, 170-255 b.r., tanks, ex tax, f.o.b. San Francisco gal. .152 • —
205-295 b.r., tanks, same basis gal. .152 • —
245-360 b.r., tanks, same basis gal. .152 • —
305-362 b.r., tanks, same basis gal. .142 • —
312-400 b.r., tanks, same basis gal. .142 • —
360-455 b.r., tanks, same basis gal. .152 • —
East coast, tanks, N. J., N. Y., refinery gal. .14 • —
Group 3, tanks gal. .09875- .10375
tankwagon, Baltimore gal. .175 • —
Boston gal. .16 • —
Buffalo gal. .165 • —
Camden, N. J. gal. .15 • —
Chicago gal. .197 • —
Detroit gal. .214 • —
Kansas City, Mo. gal. .182 • —
Newark gal. .15 • —
New York gal. .15 • —
Philadelphia gal. .14 • —
Pittsburgh gal. .175 • —
Providence gal. .165 • —
Rochester gal. .18 • —
St. Louis gal. .19 • —
Syracuse gal. .19 • —
Washington, D. C. gal. .175 • —

Naphtha, cleaners, East Coast, tanks, N. J., N. Y., refinery gal. .14 • —
Group 3, tanks gal. .10875- —
tankwagons, St. Louis gal. .19 • —
Newark gal. .15 • —
Chicago gal. .197 • —
Detroit gal. .214 • —
New York gal. .15 • —
Philadelphia gal. .14 • —
high-flash, 140°F, group 3, refinery, tanks gal. .13 • .145
200-285 b.r., 37-38° C., mixed anilin pt., tanks, refinery gal. .20 • .21½
25-26° C., m.a.p., tanks, same basis gal. .19½- .24
270-370 b.r., 78-81° C., m.a.p., tanks, same basis gal. .23½- —
49° C., m.a.p., tanks, same basis gal. .26½- —
26-27° C., m.a.p., tanks, same basis gal. .19½- .24½
300-400 b.r., 28-32° C., m.a.p., tanks, same basis gal. .19½- .27
340-410 b.r., 27° C., m.a.p., tanks, same basis gal. .30½- —
32° C., m.a.p., tanks, same basis gal. .19½- —
36° C, m.a.p., tanks, same basis gal. .19½- —
340-440 b.r., 32° C., m.a.p., tanks, same basis gal. .25½- .27
360-480 b.r., 25° C., m.a.p., tanks, same basis gal. .19½- —
V.M.&P., ref'y, California, 245-360 b.r., tanks, ex tax, f.o.b. Los Angeles gal. .147 • —
Portland, Ore gal. .158 • —
San Francisco gal. .152 • —
Seattle, Wash. gal. .158 • —
East coast, N. J., N. Y., tanks. gal. .15 • —
Group 3, tanks gal. .10875- .11375



A portion of the Soda Ash storage facilities at the Columbia plant, Barberton, Ohio.

Here's why it pays you to use Columbia Soda Ash — Light or Dense

Made for Your Requirements—Columbia's original product; manufactured, since 1899, with intimate knowledge of the specific needs of all types of industrial applications.

Controlled Quality—Eliminates variables which can cause production difficulties. Highest standards maintained to produce Soda Ash which always tests 99-100% Na_2CO_3, with an Na_2O equivalent of 58% plus.

Precise Grading—Density, for the grade specified, is uniform in particle size. Your production methods require no adjustments for Columbia Soda Ash.

Check your Soda Ash requirements with Columbia . . . you'll receive excellent service—another important factor in your operations.

COLUMBIA CHEMICALS

CHICAGO BOSTON ST. LOUIS PITTSBURGH
NEW YORK CINCINNATI CLEVELAND PHILADELPHIA
MINNEAPOLIS CHARLOTTE

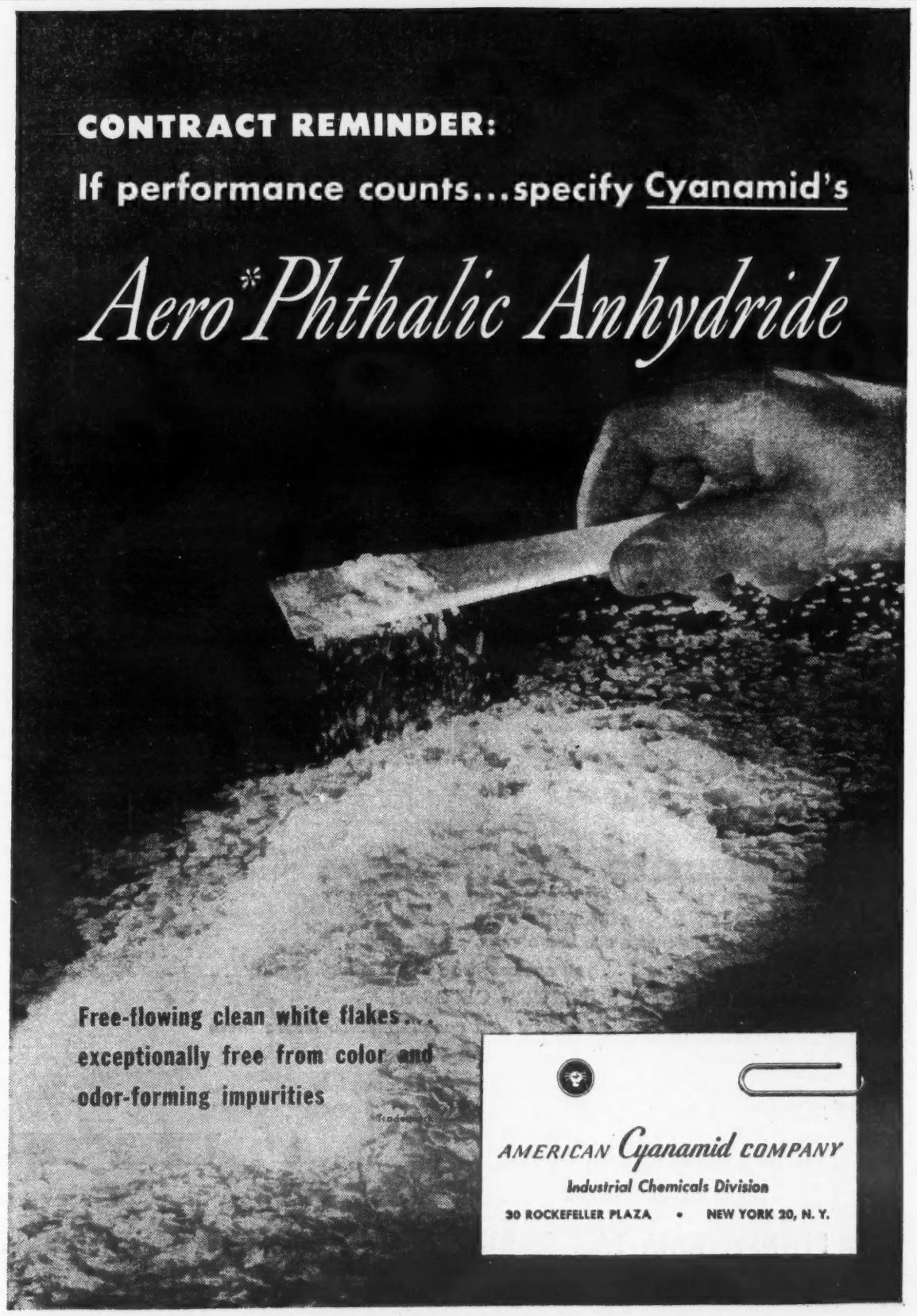
PAINT • GLASS • CHEMICALS • BRUSHES • PLASTICS

PITTSBURGH PLATE GLASS COMPANY

Petroleum naphtha, VM&P, tankwagon, Boston	gal.	.175	—
Chicago	gal.	.207	—
Detroit	gal.	.224	—
Milwaukee	gal.	.209	—
Minneapolis	gal.	.207	—
Newark	gal.	.165	—
New York	gal.	.165	—
Philadelphia	gal.	.165	—
Pittsburgh	gal.	.185	—
St. Louis	gal.	.20	—
Solvent, rubber, California, tanks, ex tax, San Francisco	gal.	1.52	—
East coast, N. J., N. Y., tanks	gal.	.14	—
Group 3, tanks	gal.	.10373	.10873
Pennsylvania, western, tanks,	gal.	.10	—
tankwagon, Boston	gal.	.16	—
Chicago	gal.	.197	—
Detroit	gal.	.214	—
Milwaukee	gal.	.199	—
Minneapolis	gal.	.197	—
Newark	gal.	.15	—
New York	gal.	.15	—
Philadelphia	gal.	.14	—
Pittsburgh	gal.	.173	—
St. Louis	gal.	.19	—
Syracuse	gal.	.19	—
Sulphonate, 70% sulphonic content, ret. dms., c.l., works	lb.	.1715	—
l.c.l., works	lb.	.1750	—
tanks, works	lb.	.1525	—
50% sulphonic content, ret. dms., c.l., works	lb.	.1365	—
l.c.l., works	lb.	.1400	—
tanks, works	lb.	.1175	—
Phenobarbital, USP, dms., 100 lbs.	lb.	4.00	4.23
Phenobarbital-sodium, USP, dms	lb.	4.00	4.10
Phenol 90-92% (cresol, 8-10%), dms., c.l., frt. alld. and frt. equald. E. of Rockies.	lb.	.1275	—
l.c.l., same basis	lb.	.1350	—
tanks, same basis	lb.	.1100	—
82-84% (cresol, 16-18%), dms., c.l., same basis	lb.	.1275	—
l.c.l., same basis	lb.	.1350	—
tanks, same basis	lb.	.1100	—
USP, dms., c.l., same basis	lb.	.13½	.14¼
l.c.l., same basis	lb.	.1425	.1500
tanks, same basis	lb.	.1250	—
Phenolphthalein, USP yellow, bbls., dms., 2,000 lbs	lb.	1.00	—
smaller lots	lb.	1.02	1.07
Phenothiazin, NF, fib. dms., 18,000 lbs., works	lb.	.44	—
smaller lots, works	lb.	.46	—
Phenylacetaldehyde solution, 50%, bots	lb.	2.35	2.63
100%, bots	lb.	4.00	4.75
Phenylacetamide, dms., works, lb. lots	lb.	1.25	—
smaller lots	lb.	1.50	1.60
Phenyl acetate, dms., 100-lb. lots, works	lb.	.50	—
Salicylate (see Salol).			
Phenylalanine dextro laevo, dms., works	lb.	30.00	37.50
Phenyldiethanoamine, dms., cl., works	lb.	.35½	—
l.c.l., works	lb.	.36½	—
Phenylethanolamine, dms., c.l., works	lb.	.67½	—
l.c.l., same basis	lb.	.68½	—
Phenylethyl acetate, dms	lb.	1.45	2.70
Phenylethylphenyl acetate, bots	lb.	3.75	6.00
Phenylhydrazin base, CP, bots	lb.	3.00	3.07
Hydrochloride, CP, bots., works,	lb.	5.00	6.07
commercial, kgs., works	lb.	1.75	—
Phenylmethylpyrazolone, dms., works	lb.	1.53	1.60
Phlororglucinol, CP, fib. dms., works	lb.	13.75	15.75
commercial fib. dms., works	lb.	4.50	7.00
tech., fib., dms., works	lb.	10.00	10.75
Phosgene, 150-lb. cyls., works	lb.	.20½	—
10-lb. cyls., works	lb.	1.50	—
Phosphate, defluorinated (see under D)			
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 63-66%, b.p.l., bulk, c.l., car at mine	long ton.	3.735	—
70%-68%, b.p.l., c.l., same basis	long ton.	4.135	—
72%-70%, b.p.l., c.l., same basis	long ton.	4.805	—
75%-74%, b.p.l., c.l., same basis	long ton.	5.805	—
77%-78%, b.p.l., c.l., same basis	long ton.	6.905	—
Anely ground, 65% b.p.l., basis 30% P_2O_5 minimum	short ton.	4.93	—
68%, b.p.l., basis 31% P_2O_5 minimum	short ton.	5.23	—
70%, b.p.l., basis 32% P_2O_5 minimum	short ton.	5.83	—
plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble, 50c. per long ton higher than above quotations.			
Tennessee, brown run of mine, unground, 27-28% P_2O_5	long ton.	6.45	—
30-29% P_2O_5	long ton.	7.21	—
Phosphorus, red, amorphous, cs	lb.	.33	.36
tins, export	lb.	.34	.37
Yellow, cns.	lb.	.30	.37
dms., c.l.	lb.	.26	—
Oxychloride, dms., works	lb.	.12	.15
Pentasulphide, dms., c.l., works	lb.	.11	—
l.c.l., dms., works	lb.	.12	.13
Pentoxide, dms., c.l., works	lb.	.12	—
l.c.l., works	lb.	.13	.14
Sesquisulphide, tins, cs., works	lb.	.28	.29
dms., export	lb.	.33½	.36
Trichloride, dms., c.l., works	lb.	.12	.15
l.c.l., works	lb.	.13	.16
Phthalimide, bbls., works	lb.	1.10	1.37
Phthalic anhydride, bgs., bbls., c.l., works, frt. equald.	lb.	.21½	—
l.c.l., same basis	lb.	.22½	—
Pichi leaves, bgs	lb.	.07	.08
Picoline (see Alphapicoline and Betapicoline).			
Picrotoxin, USP, bots	oz.	8.00	—
Pilocarpine hydrochloride, NF, bots., vials	oz.	6.50	7.50
Nitrate, USP, bots, vials	oz.	6.25	7.25
Pimento, Jamaica, bgs	lb.	.22½	.23
Pinetar, retort, dms., incl., c.l., works, South	lb.	.043	—
l.c.l., same basis	lb.	.0473	—
whse., N.Y.C.	lb.	.0593	—
tanks, works, South	lb.	.035	—
Pinkroot, bls	lb.	1.60	1.70
Piperidine, 95%, dms., frt. equald.	lb.	1.63	—
93%, dms., same basis	lb.	1.75	—
Piperazine hexahydrate, bots	lb.	8.50	9.00
Pipsissewa herb (see Prince's pine).			
Pitch, coaltar, 150°F. m.p., bbls., c.l., works	ton.	34.00	—
l.c.l., works	ton.	36.00	37.00
Cottonseed, dms., works	lb.	.08	.08½
Hardwood, paper bgs., c.l., works,	lb.	.02	—
Linseed, dms	lb.	No prices.	
Petroleum (see Asphaltum, Mexican, Texas).			
Pine, tms., ex whse. East, 100 lbs.		6.90	—
Soybean, dms., works	lb.	.06	.06½
Plaster of paris (see Gypsum)			
Platinum metal, works	oz.	69.00	72.00
Pokeroot, bls	lb.	.13	.14
Pleurisy roots, bls	lb.	.25	.30
Podophyllin, NF, dms	lb.	12.45	—
Polystyrene, plain colors, dms., 29,920 lbs., frt. alld	lb.	.32	—
20,020 lbs. to 20,920 lbs., same basis	lb.	.32	—
smaller lots, same basis	lb.	.34	—
special colors, dms., 29,920 lbs., same basis	lb.	.32	—
20,020 lbs. to 20,920 lbs., same basis	lb.	.35	—
smaller lots, same basis	lb.	.37	.50
water-clear, dms., 29,920 lbs., same basis	lb.	.26	—
20,020 lbs. to 20,920 lbs., same basis	lb.	.27	—
smaller lots, same basis	lb.	.28	—
Polystyrene in bgs. ½c. per lb. lower.			
Pomegranate root bark, bgs	lb.	.68	.70
Poppy flowers, bls	lb.	.50	.55
Seed, Dutch, bls	lb.	.15½	.16
Polish, bgs	lb.	.13¾	.14
Turkish, bgs., futures	lb.	.13½	.14
Potash, caustic, low-chloride, flake, 85% basis 90% KOH, dms., c.l., works	100 lbs.	9.73	—
l.c.l., works	100 lbs.	10.50	—
liquid, dms., c.l., 45%, works,	100 lbs.	4.525	—
l.c.l., works	100 lbs.	5.025	—
tanks, works	100 lbs.	4.20	—
solid, 90%, dms., c.l., works,	100 lbs.	9.15	—
l.c.l., works	100 lbs.	9.90	—
regular, flake, 88-92% dms., c.l., works	lb.	.0815	—
l.c.l., works	lb.	.089	—
liquid, 45% basis, dms., c.l., works	lb.	.03725	—
l.c.l., same basis	lb.	.0450	—
tanks, same basis	lb.	.0340	—
solid, 88-92%, dms., c.l., works,	lb.	.0755	—
l.c.l. works,	lb.	.0830	—

Petroleum Naphtha, VM&P, Tankwagon—Potassium Silicate

Potassium abietate	lb.	.66	—
Acetate, USP, dms	lb.	.31	.36
Bicarbonate, USP, gran., dms	lb.	.20	.22
powd., dms	lb.	.22	.24
Bichromate, bgs., c.l., works	lb.	.12¾	—
l.c.l., bgs., works	lb.	.12½	.13¾
Potassium bichromate in bbls., ¼c. higher.			
Bitartrate (see Cream of tartar).			
Borate, gran., bbls., c.l., works	ton.	192.00	—
ton lots, works	ton.	245.50	—
less ton lots, works	ton.	250.50	—
Bromate, bbls., 1,000 lbs. or more,	lb.	.48	—
25-200 lbs	lb.	.50	—
Bromide, USP, cryst., gran., bbls., kgs.	lb.	.33	.34
Carbonate, tech., calcined, bbls., c.l., works	lb.	.0780	—
l.c.l., same basis	lb.	.0855	—
hydrated, 83-85%, bbls., c.l., works	lb.	.06¾	—
dms., l.c.l., works	lb.	.07	—
USP, gran., bbls., dms	lb.	.16½	.18
powd., bbls., dms	lb.	.21	.23
Chromate, tech., bgs	lb.	.25	.29
Chlorate, cryst., kgs., c.l., works	lb.	.08½	—
l.c.l., works	lb.	.09¾	—
powd., dms., kgs., c.l., works	lb.	.09	—
l.c.l., works	lb.	.09¾	—
export, kgs., 1 to 10 tons, ex whse	lb.	.12	—
NF, gran., dms	lb.	.31	.33
Chloride, USP, cryst., dms	lb.	.26	.27
gran., bbls	lb.	.20	.22
powd., bbls	lb.	.29	.32
Citrate, USP, gran., dms	lb.	.37½	.38½
powder, dms	lb.	.40½	.41½
Cyanide, dms., works	lb.	.52½	.55
Fluoride, dms., works	lb.	.24	—
Glutonate, dms	lb.	.75	.79
Potassium glycerophosphate, 75% solution, cbys.	lb.	2.05	2.20
Guiacol sulphonate, NF, dms	lb.	1.80	1.85
Hydroxide, tech. (see Potash, caustic), USP, pellets, jars	lb.	.38	—
Hypochlorite, liquid, cbys., dms., works	100 lbs.	3.50	—
Hypophosphite, NF, 50-lb. lots, fib. dms	lb.	.90	.93
Iodide, dms	lb.	1.93	1.98
Manure salt, 22% K_2O, bulk, mines	unit-ton.	.20	—
25% K_2O, bulk, mines	unit-ton.	.21	—
Metabisulphite, gran., bbls	lb.	.21	—
powd., bbls	lb.	.25	—
Muriate, dom., 60% K_2O, bulk, Carlsbad, N. M.	unit-ton.	.37½	—
Trona, Cal	unit-ton.	45½	—
Nitrate (see Saltpeter).			
Oxalate, neutral, tech., fine gran., bbls	lb.	.30	.32
purified, dms	lb.	.42	.44
Perchlorate, kgs., c.l., works	lb.	.13½	—
dms., l.c.l., works	lb.	.14	.15
Permanganate, tech., dms., works,	lb.	.21¾	.22¼
USP, dms., works	lb.	.23¼	.24
ex whse	lb.	.29	—
Persulphate, dms., c.l., works	lb.	.17	—
l.c.l. works	lb.	.21	—
Phosphate, tetrabasic, bbls., works,	lb.	.13	.13¼
Prussiate, red, kgs	lb.	.60	.63
yellow, bbls	lb.	.21	—
kegs	lb.	.26	—
Ricinoleate, tech., bbls	lb.	.18	—
Silicate, glass, bgs., c.l., works	ton.	200.00	—
l.c.l.	100 lbs.	15.25	—



Potassium Silicate, Solution—Red, Phosphotungstic

Potassium silicate, solution, 29° Be, ret, dms., c.l., works 100 lbs. 4.25 - —
l.c.l., 5 or more, works, 100 lbs. 5.00 - —
1-4, works 100 lbs. 5.50 - —
62° Be, net, dms., c.l., works 100 lbs. 4.75 - —
l.c.l., 5 or more, works, 100 lbs. 5.50 - —
1-4, works 100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works, 100 lbs. 5.75 - —
l.c.l., 5 or more, works, 100 lbs. 6.50 - —
1-4, works 100 lbs. 7.00 - —
Silicofluoride, bbls., works lb. .07 - .08
Sulphate, agricultural, dom., bulk, basis 90-95% K_2SO_4, min. 90%, works ton.32.50 - —
indust, bulk, works ton.36.00 - —
NF, cryst., bbls. lb. .31 - .33
gran., dms. lb. .18½ - —
powder, dms. lb. .17 - —
Sulphocyanide, cryst., NF (see Potassium Thiocyanate)
Thiocyanate, cryst., NF, dms. lb. .70 - .78
tech., works lb. .45 - .50
Titanate, ctns., c.l., works lb. .12 - —
5 tons, works lb. .12¼ - —
1 ton or less, works lb. .12½ - .13
Potassium-magnesium sulphate, bulk, min., 40% K_2SO_4, 18-50% MGO, works ton.14.50 - —
Potassium-sodium ferricyanide, kgs., works lb. .50 - .53
Potassium-sodium tartrate (see Rochelle salt).
Potassium-titanium fluoride, fib. dms., works lb. .45 - .55
Potassium-titanium oxalate, bbls., kgs. lb. .65 - .70
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
l.c.l., works lb. .52½ - .55
Prickly ash bark, bls. lb. .23 - .25
Berries, bgs. lb. .55 - .75
Prince's pine herb, bls. lb. .50 - .55
Procaine hydrochloride, USP, dms., 1,000-lb. lots lb. 3.75 - 4.00
smaller lots lb. 4.00 - 4.35
Progesterone, USP, 100 gms. gm. 3.75 - —
Propane, commercial grade, tanks, group 3 gal. .02½ - —
Propionaldehyde, dms., c.l., works lb. .28½ - —
l.c.l., works lb. .29½ - —
tanks, works lb. .25 - —
Propyl aldehyde (see Propionaldehyde)
Parahydroxybenzoate, USP, dms lb. 2.30 - 2.40
Propylene dichloride, dms., c.l. lb. .08½ - —
l.c.l. lb. .09½ - —
smaller containers lb. .12½ - —
tanks lb. .07 - —
Oxide, dms., c.l., frt. alld. E lb. .18½ - —
l.c.l., frt. alld. E lb. .19½ - —
tanks, frt. equald. E lb. .16½ - —
Propyleneglycol NF, dms., c.l., frt. alld. E lb. .17½ - —
l.c.l., same basis lb. .18½ - —
tanks, same basis lb. .16 - —
Tech., dms., c.l., frt. alld. E lb. .16½ - —
l.c.l., same basis lb. .17½ - —
tanks, same basis lb. .15 - —
Methylether, dms., c.l., frt. equald. lb. .18 - —
l.c.l., same basis lb. .18½ - —
tanks, same basis lb. .16½ - —
Propylthiouracil, bots., 50 kilos or more, works kilo.55.00 - —
smaller lots, works lb.55.10 - 55.30
Psyllium seed, black, bgs. lb. .22 - .25
blonde, bgs. lb. .19 - .21
husks, bgs. lb. .45 - .55
Pulsatilla herb, bls. lb. .45 - .50
Pumice, dom., grd., course, 0½, 1, 1½, 2, 3, bgs., ton lots, lb. .03⅜ - .04
Chicago, bgs., ton lots lb. .04½ - —
smaller lots lb. .03½ - .04¼
fine, bgs., ton lots lb. .03⅜ - —
smaller lots lb. .03⅝ - .04
Italian, silk-screen, fine, bgs., ton lots lb. .04 - —
coarse, bgs., ton lb. .05½ - —
sun dried, fine, bgs., ton lots lb. .03 - —
coarse, bgs., ton lots lb. .04½ - —
Pumice in bbls is ½c. per lb. higher.
Pumpkin seed, bgs. lb. .18 - .26
Purple lake (see Red).
Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works lb.10.75 -11.00
Liquid (20 to 1), basis 2 grams pyrethrins per 100cc., odorless base, dms., works gal. 9.00 - 9.50
regular base, dms., works, gal. 8.90 - 9.40
(30 to 1) base, 3 grams pyrethrins, per 100cc., odorless base, bbls., works gal.13.30 - —
regular base, dms., works, gal.13.20 - —
Flowers, fine-grd., 0.9% pyrethrins, bbls., works lb. .42 - .44
powder, 1.3% pyrethrins, bbls., works lb. .53 - .56
Pyridin, denaturing, dms., works and frt. equald., c.l. gal. 2.00 - 2.69
l.c.l. gal. 2.00 - 2.72
Pyridin, refd., 2° non-ret. dms., c.l., same basis lb. .79 - .79½
l.c.l., same basis lb. .80 - —
ret. dms., c.l., same basis lb. .79 - —
lb. .79 - —
l.c.l., same basis lb. .79½ - —
Pyridoxin hydrochloride, 100-gram lots gram. .55 - —
Pyrites, Spanish, c.i.f. Atl ports, long-ton 8.00 - —
Pyrocatchin (see Catechol).
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines ton.11.00 -11.50
230 mesh bulk, c.l., mines ton.12.00 - —
325 mesh, bulk, c.l., mines ton.15.00 - —
No. 3, 200 mesh bulk, c.l., mines, ton. 9.50 - —
insecticide grade, 200 mesh, bgs., c.l., mines ton.12.00 -12.50
rubber grade, 140 mesh, bgs., c.l., mines ton.10.00 -10.50
Pyrophyllite in paper bgs., $3 to $3.50 per ton extra.
Pyroxylin scrap, opaque, amber, cs., works lb. .17 - —
black, cs., works lb. .14 - —
gray, cs., works lb. .14 - —
mixed, mottled, cs., works lb. .12 - —
white, china, ivory, cs., works, lb. .17 - —
dense, cs., works lb. .17 - —
translucent, pastels, cs., works, lb. .17 - —
transparent, colorless, cs., works, lb. .19 - —
colors, cs., works lb. .17 - —
shavings, opaque, amber, cs., works lb. .15 - —
mixed, colors, cs., works lb. .14 - —
white, cs., works lb. .17 - —
USP, bots., dlvd lb. 9.54 - —

Q

Quassia chips, bls lb. .08 - .09
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., duty extra lb. .16½ Nom.
liq., 35% tannin, bbls., works, lb. .08½ Nom.
liquid, 35% tannin, tanks, same basis lb. .07¾ Nom.
solid, 64% tannin, bgs., c.l., duty extra lb. No prices.
powd., 70% tannin, bgs., c.l., same basis lb. .17 Nom.
ordinary, solid, 63% tannin, bgs., c.l., ex dock, same basis lb. No prices.
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.
Queen of the meadow root, bgs. lb. .14 - .15
Quercitron crystals, bbls., l.c.l. lb. .33½ - —
Extract, liquid, bbls., l.c.l. lb. .14½ - —
solid, bxs. lb. .28 - —
Quicksilver, flasks (76 lbs.) net, 100 flask lots flask.72.00 - —
smaller lots lb.73.75 - —
Quince seed, bgs. lb. .90 - 1.50
Quinidine, NF V, cryst., cns. oz. 1.90 - —
powd., precip., cns. oz. 1.85 - —
Sulphate, USP, cns. oz. 1.25 - —
Quinine, NF, cns., 100 ozs. oz. .70 - —
Bisulphate, USP, cns., 100 ozs. oz. .51 - —
Dihydrochloride, USP oz. .70 - —
Ethylcarbonate, NF, cns., 100 ozs. oz. .75 - —
Hydrobromide, NF, cns., 50-oz. cns oz. .63 - —
Hydrochloride, USP, cns., 100 ozs. lb. .63 - —
Phosphate, NF, cns., 100 ozs. oz. .76 - —
Salicylate, NF, ctns., 100 ozs. oz. .66 - —
Sulphate, USP, cns., 100 ozs. oz. .56½ - —
Quinine-urea hydrochloride, NF, cns lb. .68 - —
Quinolin, dms., c.l., works lb. 50¾ - .54½
l.c.l., same basis lb. .51¼ - .55
tanks lb. .50 - .51

R

R salt, paste, dry basis, dms. lb. .70 - .75
Raspberries, dried, bbls. lb. 1.90 - 2.00
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.45 - 2.25

Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, dlvd. Pacific coast prices equaled with Chicago, dlvd. Denver, Pueblo, Salt Lake City, Wichita.

Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies lb. 1.35 - —
light shade, bbls., same basis, lb. 1.20 - —
maroon, bbls., same basis lb. 1.45 - 1.55
medium shade, bbls., same basis lb. 1.30 - —
medium-light shade, bbls., same basis lb. 1.25 - —
orange red, bbls., same basis lb. 1.15 - —

Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb. higher ex whse. Los Angeles and San Francisco.

Carmine, No. 40 (see Carmine).
Crocus martis (see Red, maroon iron oxide).
Dyes (see Dyes, coaltar)
Eosin toner, bbls., works lb. 1.40 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y. lb. .11½ - .11¾
Iron oxide, synth., bgs. lb. .11½ - .11¾
75%-85% copperas oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O.; Easton, Pa.; E. St. Louis lb. .05¼ - .09¼
special, high color, all shades lb. 1.00 - —
Lake C toner alizarin, bbls., works, lb. 1.05 - —
Lithol toner, bbls., works lb. .80 - —
Lithol-rubin toner, alizarin, lake, bbls., works lb. 1.40 - —
Maroon, alizarin lake, 25%, kgs., works lb. .40 - .43
toner, bbls., works lb. 1.35 - 1.50
Cadmium, deep, bbls., works lb. 1.20 - —
regular, bbls., works lb. 1.10 - —
Iron oxide, bgs., l.c.l., works lb. .04 - —
MNPT toner, kgs., works lb. 3.25 - —

Maroons in smaller pkgs., 5c. per lb. higher

Mercury oxide, tech., bbls., 10,000 lbs., works lb. 2.00 - —
smaller lots, works lb. 2.02 - —
Metallic, bbls., works lb. .02½ - .02¾
Oxide (see Red, iron oxide).
Persian gulf, bgs., works lb. 06¾ - .07
Para toner, bbls lb. .85 - .88
chlorinated, kgs lb. .95 - 1.05
concentrated alizarin lake, kgs., works lb. .80 - —
Phloxin toner (see eosin toner)
Phosphotungstic, rhodamine Y, kgs., works lb. 4.45 - —

Pennsalt Potassium Chlorate

Whether your interests are in matches, pyrotechnics, explosives, or paper . . . you can count on uniform high quality when you use Pennsalt POTASSIUM CHLORATE. You'll find that it reacts instantly and completely. To insure these superior results, Pennsalt manufactures Potassium Chlorate under rigid quality control . . . with complete testing from start to finish.

PENN SALT chemicals

Let us know how Pennsalt Potassium Chlorate can serve you.

PENNSYLVANIA SALT MANUFACTURING COMPANY OF WASHINGTON

Tacoma, Washington • Portland, Oregon • Los Angeles, California

Red, pink lake, alizarin, bbls., works, lb. .20 - .25
Purple lake, kgs. lb. 1.35 - —
Rose lake, alizarin, bbls., works lb. .25 - .28
Spanish oxide, grade 1, bbls., c.l., ex dock lb. .05½- .05¾
l.c.l., ex dock lb. .05¾- .06
ex whse., New York lb. .06½- —
grade 2, bbls., c.l., ex dock lb. .05¼- .05½
l.c.l., ex dock lb. .05½- .05¾
ex whse., New York lb. .06¼- —
Toluidin toner (MNPT), kgs., works lb. 1.35 - —
Turkey, bbls., works lb. .14½- —
Tuscan, bbls., frt. equald lb. .24½- .25
Venetian, 15%, ogs., works lb. .0330- —
20%, bgs., works lb. .0360- —
25%, bgs., works lb. .0410- —
30%, bgs., works lb. .0440- —
35%, bgs., works lb. .0465- —
40%, bgs., works lb. .0490- —
Vermilion, Amer., bbls. .32 - —
Quicksilver, ctns lb. 2.27 — —
Red Precipitate, NF, powd., fib. dms lb. 2.17 2.19
Red saunders wood, powd., bbls lb. .50 - —
Rennin, NF lb. 6.50 - —
Resorcinol, industrial, dms., c.l., works lb. .62 - —
l.c.l., works lb. .63 - —
tech., dms., c.l., works lb. .74 - —
l.c.l., works lb. .75 - —
USP, cryst., dms., works lb. 2.50 - —
powd., dms., works lb. 2.70 - —
Monoacetate, NF, dms lb. 3.25 - 3.45
Rhatany root, bgs lb. .12 - .14
Rhubarb root, whole, cs lb. .90 - 1.05
powd., bbls lb. 1.00 - 1.20
Riboflavin, USP, bots kilo. 125.00 — —
Readily soluble, bots kilo. 125.00 - —
Rice bran concentrate, dms., Cedartown, Ga lb. .79 - —
Rochelle salt, USP, gran., powd., bbls., 5,000 lbs lb. .28½- —
smaller lots lb. .29 - .30
Rose flowers, pale, bls lb. .20 - .24
Rosemary flowers, bls lb. 1.55 - 1.65
Leaves, French, bls lb. .12 - .17
Portuguese, bls lb. .06 - .06½
Spanish, bls lb. .08 - .08½
Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works 100 lbs. 4.25 - —
FF, dms., c.l., works 100 lbs. 5.50 - —
G, H, I, dms., c.l., works 100 lbs. 6.61 - —
K, dms., c.l., works 100 lbs. 6.61 - —
M, dms., c.l., works 100 lbs. 6.61 - —
N, dms., c.l., works 100 lbs. 6.61 - —
WG, dms., c.l., works 100 lbs. 6.61 - —
WW, dms., c.l., works 100 lbs. 6.73 - —
X, dms., c.l., works 100 lbs. 6.83 - —
Rotenone, CP, bbls., works lb. 20.00 - —
tech., works lb. 16.50 - —
Rottenstone, bgs., c.l., mines ton. 36.00 - —
l.c.l., mines ton. 43.00 - —
Rue herb, bls lb. .35 - .40
Rutin, 10 kilos, fib. dms gram. .06 - .07½
5 kilos, fib. dms gram. .06 - .07½
smaller lots, fib. dms gram. .06½- .08

S

Sabadilla seed, powd., bbls lb. .45 - .50
activated ground with lime, bbls lb. .26 .27
Saccharin, USP, gran., soluble, 1,000 lbs lb. 1.50 - —
smaller lots lb. 1.60 - 1.70
powd., soluble, insoluble, dms., 1,000-lb. lots lb. 1.55 - —
smaller lots lb. 1.65 - 1.85
Safflower, Egyptian, bls lb. .80 - .85
Saffron, Mexican, bls lb. .95 - 1.00
Spanish, USP, tins lb. 17.00 - 18.00
Safrol, dms lb. .68 - .75
Sage, Cyprus, bales lb. .08 - .09
Dalmatian, bls lb. .42 Nom.
Greek, fancy, bls lb. .08 - .09
Spanish, bls lb. .08 - .09
Syrian, bgs lb. .21 Nom.
Sago flour, bgs lb. .05 - .05¼
Saligenin, ctns., works lb. 14.00 - 25.00
Salol, NF, gran., bbls., kgs lb. 1.00 - —
fib. dms lb. 1.02 - 1.03
powdered salol, 10c. higher
Salt, rock, burlap bgs., c.l. 100 lbs. .98 - —
l.c.l. 100 lbs. 1.19 - 1.22
paper bgs., c.l. 100 lbs. .88 - —
l.c.l. 100 lbs. 1.09 - 1.12
Table, vacuum, common, fine, bgs., works, c.l. 100 lbs. .98 - 1.08
l.c.l., bgs. dlvd. 100 lbs. 1.20 - 1.32
USP, dms lb. .21 - —
Saltcake, dom., bulk, dlvd ton. 22.00 - 24.00
Saltpeter, cryst., bbls., 10 tons. 100 lbs. 13.90 - —
smaller lots 100 lbs. 14.15 - 14.40
gran., bbls., 20 tons 100 lbs. 9.25 - —
smaller lots 100 lbs. 10.50 - 11.00
powd., bbls., 20 tons 100 lbs. 10.25 - —
smaller lots 100 lbs. 11.50 - 12.00
NF, gran., dms lb. .15¾- .17¾
Saltpeter in bags, 25c. per 100 lbs. less than in barrels; in kegs, $1 more.
Sanguinarine nitrate, bots oz. 4.75 - 5.50
Santonin, NF, cryst., powd., ctns. kilo. No stocks.
Saponin No. 1, ctns lb. 2.45 - —
Sarsaparilla root, dom., bls lb. .30 - .40
Honduras, bls. lb. .40 - .45
Mexican, bls lb. .24 - .30
Sassafras bark, ord., bls lb. .35 - .40
select, bls lb. .50 - .55
Savory, French, bls lb. .16 - .17
Spanish, bls lb. .14 - .14¼
Saw palmetto berries, bgs. lb. .23 - .24
Scammony resin, tump, ctns lb. 2.10 - 2.25
powd., ctns lb. 2.20 - 2.30
Root, bgs lb. .11 - .14
Schaeffer's salt, bgs. lb .60 - .67
Scopolamine hydrobromide, bots oz. 20.50 - 24.50
Hydrochloride, bots oz. 84.00 - —
Seidlitz mixture, bbls., 5,000 lbs lb. .25¾- —
smaller lots lb. .26¼- —
dms., 100 lbs. or less lb. .27¼- .31¼
Selenium, powd., cns., 10-lb. lots lb. 2.10 - —
cs., 1,000-lb lots lb. 2.00 - —
Senega root, bls lb. 1.45 - 1.60
Senna leaf, Alex., half-leaf, bls lb. .22 - .24
sifting, bgs lb. .19 - .21
Tinnevelly, No. 1, bls lb. .17 - .24
No. 2, bls lb. .14 - .19
No. 3, bls lb. .10 - .11
Pods, bls lb. .12 - .15
powdered, bls., bxs. lb. .16 - .22
Serpentaria root, bls lb. 2.20 - 2.30
Sesame seed, Brazil, bgs., afloat lb. .16½- .17
Chinese, white, nat., bgs lb. .12 - .13
hulled, bgs. lb. .18 - .19
Nicaragua, hulled lb. .22 - .25
Salvadorean lb. .13 - .13½
Turkish, yellow lb. .14½- .15
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .62½- —
bbls., 1,500-lb. lots lb. .63 - —
kgs., 1,500-lb. lots lb. .65 - —
refined, bgs., 1,500-lb. lots lb. .72½- —
bbls., 1,500-lb. lots lb. .73 - —
kgs., 1,500-lb. lots lb. .75 - —
bonedry shellac prices for less than 1,500 lbs., 1c. per lb. higher for all packages.
Lemon, No. 1, bgs lb. .64 - .65
No. 2, bgs lb. .62 - .63
Superfine, bgs., 10 bgs lb. .59 - .60
TN, bgs., 10 bgs lb. .57 - .58
Shellac in 1 to 9 bgs., 1c. more

Silica amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works ton. 20.00 -30.00
l.c.l., works ton. 25.00 -40.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton. 20.00 - —
l.c.l., works ton. 25.00 - —
99½%, 140 mesh, bgs., c.l., works ton. 12.00 - —
l.c.l., works ton. 17.00 - —
Tetrachloride, tech., dms., c.l., works lb. .14½- —
l.c.l., works lb. .18½- .20½
Silver bullion, ingots, cs oz. .73¼- —
Cyanide, fib. dms., 2.2500-oz. lots, oz. .66¾- —
1,000-oz. lots oz. .67 - —
500-oz. lots oz. .67¼- —
100-oz. lots oz. .67½- —
Nitrate, CP, cryst., bots., 2,500-oz. lots oz. .46¾- —
1,000-oz. lots oz. .48 - —
500-oz. lots oz. .48¾- —
250-oz. lots oz. .49 - —
USP granular silver nitrate, 2c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. .95 - —
strong, NF, bots., dms., 1,000-oz. lots oz. .90 - —
Simaruba bark, bls. lb. .35 Nom.
Skullcap herb, Eastern, bls lb. .60 - .65
Western, bls lb. .30 - .35
Skunk cabbage root, bls lb. .30 - .35
Slate flour, bgs., c.l., works ton. 11.00 -12.00
l.c.l., ex whse ton. 20.00 -60.00
Sloe berries, bgs lb. .33 - .35
Smalt, black, ctns lb. .11 - —
Blue, ctns lb. .15 - —
Snakeroot, Canada, bls lb. .40 - .45
Soapbark, bls. lb. .20 - .23
crushed, bls., bbls lb. .22 - .26
cut, foreign, bbls lb. .23 - .26
powd., bbls. lb. .27 - .29

Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.35 - —
l.c.l., stock points 100 lbs. 2.75 - 4.52
bbls., c.l., works 100 lbs. 2.00 - —
l.c.l., stock points 100 lbs. 3.25 - 5.02
bulk, c.l., works 100 lbs. 1.10 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.25 - —
l.c.l., stock points 100 lbs. 2.65 - 4.42
bbls., c.l., works 100 lbs. 1.90 - —
l.c.l., stock points 100 lbs. 3.15 - 4.92
bulk, c.l., works 100 lbs. 1.00 - —
Caustic, flake, powd., 76% dms., c.l., works 100 lbs. 3.45 - —
l.c.l., stock points 100 lbs. 4.80 - 6.67
liquid, 50%, sellers' tanks, works, dry basis 100 lbs. 2.40 - —
rayon-type, tanks, works, dry basis 100 lbs. 2.40 - 2.50
70%, sellers' tanks, works, dry basis 100 lbs. 2.50 - —
rayon-type, tanks, works, dry basis 100 lbs. 2.60 - —
solid, 76%, dms., c.l., works 100 lbs. 3.05 - —
l.c.l., stock points 100 lbs. 4.40 - 6.27
Sal, bgs., c.l., ex car 100 lbs. 1.55 - —
l.c.l., bgs., ex whse 100 lbs. 1.75 - —
Soda-lime, USP, dms lb. .23 - .25
Sodium acetate, anhyd., dms., works lb. .10 - .11½
NF, cryst., bbls., works lb. .08 - .09
Alginate, refined, water soluble, bbls., works lb. .79 - —
semi-refined, bbls., works lb. .46 - —
NF, white, powd., dms., works, ton lots lb. 1.23 - —
smaller lots lb. 1.30 - 1.65

Red, Pink Lake—Sodium Cacodylate

Sodium aluminate, 20,000 lbs., or more bgs 100 lbs. 8.50 - —
under 20,000 lbs., works 100 lbs. 9.50 - —
Antimoniate, bbls., c.l., dlvd. lb. .31 - —
l.c.l., dlvd lb. .32 - —
Arsenate, dealers, dms., c.l., works lb. .12 - —
Arsenite, dealers, dms., works lb. .13¼- .14¼
solution, dms., works gal. .70 - 1.00
l.c.l., works lb. .11¾- .11⅞
Benzoate, tech., bbls., dms., 100 lbs. or more lb. .39 - —
USP, bbls., dms., 100 lbs. or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.35 - —
l.c.l., works 100 lbs. 3.00 - —
powd., bgs., c.l., works 100 lbs. 1.95 - —
l.c.l. works 100 lbs. 2.60 - —
Bichromate, bgs., c.l., works lb. .10 - —
l.c.l., works lb. .10¼- .10⅝
Sodium bichromate, in bbls., ¼c. higher.
Bifluoride, bbls., c.l., works, frt. equald lb. .13¼- —
l.c.l., same basis lb. .13½- —
Bisulphate, bulk, c.l., works 100 lbs. 1.75 - —
dms., c.l., works 100 lbs. 2.40 - —
l.c.l., works 100 lbs. 2.90 - —
Bisulphite, powd., bags, c.l., works 100 lbs. 3.75 - —
l.c.l., works 100 lbs. 4.00 - —
solut. 35° bbls., c.l., works 100 lbs. 1.10 - —
l.c.l. works 100 lbs 1.50 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works lb. .33 - .36
Cacodylate, NF, bots., dms lb. 7.15 - 8.00

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Paradichlorobenzene
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Street_____
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Sodium Carbonate—Soybean Meal

Sodium carbonate (see Soda ash, Soda sal, Sodium monohydrate).
USP monohydrate, dms..... lb. 05¾- .06½
Chlorate, cryst., dms., c.l., works. lb. .07½- —
l.c.l., works..... lb. 07¾- .08¼
powd., kgs., works..... lb. 09 - —
Chlorite, tech., dms., works lb. 75 - —
Chloroacetate, tech., dms., c.l., works lb. .20 - —
l.c.l., dms., works..... lb. .21 - .22
Chloride (see Salt).
Chromate, bbls., dms., c.l., works. lb. .11⅜- —
Citrate, USP VIII, bbls..... lb. .21½- —
dms..... lb. .22½ .26¼
USP XIII, gran., bbls..... lb. .28 — —
dms..... lb. .29 - .33
Sodium citrate, USP XIII, powd., prices ½c. higher.
Cyanate, dms., ton lots, works lb. .75 - —
smaller lots, works lb. .85 — —
Cyanide, 96-98%, dms..... lb. .16 - .18
Diacetate, 33-35% acidity, bbls., works lb. .11½- .12¼
anhydrous, dms., works lb. .14 - .15½
Fluoride, white, 90%, bbls., c.l., works lb. .10½- — —
l.c.l., works..... lb. .10¾- — —
95%, bbls., c.l., works..... lb. .10¾- — —
l.c.l., works..... lb. .11 - — —
Fluoroacetate, monobasic, 8-oz. tins, 50 to a case, works. lb. 12.00 - —
2 to 25 tins to case, works lb. 12.00 -16.50
1 oz. tins, 16 to 64 to case, works lb. 16.50 -21.00
tribasic, tons..... lb. 11.00 - —
Sodium formate, bgs., c.l., dlvd, 100 lbs. 7.10 - —
l.c.l. ..... 100 lbs. 8.15 - —
Gluconate, dms..... lb. .83 - .85
Glutamate, monobasic, kgs lb. 1.55 - 1.56
Glycerophosphate, NF, flake, bbls. lb. 1.65 - 1.80
powder, bbls..... lb. 1.70 1.85
solution, 75%, cbys..... lb. .96 - 1.06
Hydrosulphide (see Sodium, sulphydrate).
Hydrosulphite, dms., c.l., frt. alld. lb. .21 - —
l.c.l., frt. alld..... lb. .21½- .22
Hydroxide, tech. (see Soda, caustic).
USP, pellets, dms..... lb. .23 —
Hypophosphite, NF, 50-lb. lots, dms lb. .85 - .88
Hypophosphite, tech., cryst., bgs., c.l., works, frt. equald 100 lbs. 3.50 - —
l.c.l., same basis 100 lbs. 3.90 - —
pea cryst., bgs., metro area 100 lbs. 3.75 - —
Soda, hyposulphite, crystals in bbls., 40c higher; pea crystals, dms., 50c. higher.
USP (see Sodium thiosulphate).
Iodide, USP, dms., jars..... lb. 2.47 - 2.66
Lactate, edible, 50%, dms., c.l., works lb. .18 - —
l.c.l., dms., works lb. 18¾- —
tech., 50%, dms., c.l., works lb. .12½- .15
l.c.l., dms., works lb .13 - .15¼
Metaborate, octa-hydrate, gran., bgs., c.l., works ton.73.00 - —
l.c.l., works ..... ton.118 00 -123.00
tetrahydrate, c.l., bbls., works. ton.184.50 - —
Sodium metaborate in bbls. $20 per ton higher.
Metal, dms., works..... lb. .18½- —
Sodium metanilate, bgs..... lb. .57 - —
Metasilicate, anhyd., bbls., c.l., works..100 lbs. 4.25 - —
gran., bgs., c.l., works..100 lbs. 3.25 - —
l.c.l. ..... 100 lbs. 4.35 - 4.60
bbls., c.l., works..... 100 lbs. 3.65 - —
l.c.l. ..... 100 lbs. 4.75 - 5.00
Molybdate, anhyd., works .... lb. .51½- .53
Monohydrate, bgs., c.l., works. 100 lbs. 2.00 - —
l.c.l., works..... 100 lbs. 2.45 - —
Naphthionate, bbls..... lb. .60 - .65
Nitrate, crude, dom., bgs., c.l. works. ton.48.50 - —
bulk, c.l., works ..... lb.45.00 - —
imp., 100-lb. bgs., c.l., Atl Gulf, Pac. whse..ton.51.50 - —
bulk, c.l., same basis...ton.48.00 - —
USP, dms..... lb. .21 - —
Nitrite, 90%, bbls., c.l., works, frt. equald lb. .06¾- —
West coast ports 100 lbs. 8.00 - 8.05
l.c.l., dlvd..... 100 lbs. 8.90 -11.00
Orthosilicate, anhyd., dms., c.l., works 100 lbs. 5.25 - —
l.c.l., same basis 100 lbs. 5.55 - 7.10
hydrated, flake, bbls., c.l., works. 100 lbs. 4.25 - —
l.c.l., works 100 lbs. 5.50 - 5.75
Oxalate, neut., bgs., works ... lb. .09½- —
Pentachlorophenate, briquets, bgs., c.l., works, frt equald. lb. .21½- —
l.c.l., same basis lb. .22½- .24¼
pellets, bgs., c.l., same basis, lb. .21 - —
l.c.l., same basis lb. .22 - .26
powd., bgs., c.l., same basis lb. .20 - —
l.c.l., same basis lb. .21 - .24
Perborate, USP, tech., bbls., c.l., works lb. .18¾- —
l.c.l., works ..... lb. .19¼- —
Sodium, peroxide, dms., c.l., dlvd. E. of Miss. lb. .18 - —
l.c.l., same basis..... lb. .18½- .19
Phenolsulphonate, USP IX, gran., dms. lb. .33 - .34
powd., dms. ..... lb. .36 - .37
Phosphate, dibasic, anhyd., bgs., c.l., works..100 lbs. 6.75 - 7.00
l.c.l., works.....100 lbs. 7.25 - 7.50
cryst., bgs., c.l., wor's. 100 lbs. 3.35 - 3.60
l.c.l., works.....100 lbs. 3.75 - 4.00
USP, dried, powd., dms., works lb. .20 - .20¼
monobasic, anhyd., bgs., c.l., works..100 lbs.10.00 - —
l.c.l., works..... 100 lbs.12.85 — —
tribasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. No stocks
l.c.l., same basis 100 lbs. No stocks.
cryst., bgs., c.l., works, frt. equald..100 lbs. 3.75 - —
l.c.l., same basis..100 lbs. 4.25 - —
Sodium phosphates in bbls., 40c. higher than bgs.
USP (see Sodium phosphate dibasic).
Prussiate, yellow, bgs..... lb. .12½- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs.10.00 - —
ferric, dms., 1,500 lbs., works. lb. .30 - —
smaller lots, works lb. .31 - —
tetrabasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 6.90 - —
l.c.l., frt. equald..100 lbs. 7.40 - —
Ricinoleate, tech., bbls..... lb. No stocks.
Salicylate, USP, dms..... lb. 57 .60
Sesquicarbonate, bgs., c.l., works. 100 lbs. 1.95 —
bbls., c.l., works..... 100 lbs. 2.45 —
l.c.l., bgs., dlvd, zone 1..100 lbs. 3.70 - 4.10
zone 2.....100 lbs. 3.96 - 4.36
zone 3.....100 lbs. 4.25 - 4.65
zone 4.....100 lbs. 4.96 - 5.35

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La. and Miss., south of 31° Tex., E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb., W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso; (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Sesquisilicate, bbls., c.l., works 100 lbs. 4.15 - —
l.c.l. dlvd ..... 100 lbs. 5.40 5.65
Silicate, 40°, trub'd., dms., c.l., works..100 lbs. 1.00 - —
l.c.l., works ..... 100 lbs. 1.25 - 1.35
tanks, works ..... ton.16.00 -17.00
52°, turbid, dms., c.l., works 100 lbs. 1.80 - —
l.c.l., works.....100 lbs. 2.05 - 2.15
tanks, works ..... ton.32.00 —
Silicofluoride, bbls., c.l., works lb. .04 - —
l.c.l., works ..... lb. .04½- —
Stannate, dms., works, frt. alld. E. lb. .537 - .602
Stearate, tech., bbls., works... lb. .40 - —
USP, anhyd., bbls., works...lb. .51 - .56
Sulphanilate, bbls., works..... lb. .22 - —
Sulphate, NF VII, dried, gran., dms lb. .20 - .20¼
tech., anhyd., bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., works ..... 100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt).
USP, cryst., gran., bbls lb. .15 - .15¼
Sulphide, flake, bbls., c.l., works, frt. equald 100 lbs. 4.50 - —
l.c.l., same basis....100 lbs. 5.00 - 5.25
fused, bbls., c.l., works, frt. equald..100 lbs. 4.00 - —
l.c.l., same basis...100 lbs. 4.50 4.75
Sulphite, anhyd., tech., powd. bbls., c.l., frt. equald. 100 lbs. 2.50 - 2.75
l.c.l., same basis...100 lbs. 3.25 3.75
Sulphite, crystals, bgs., c.l., works. 100 lbs. 3.60 - —
l.c.l., works.....100 lbs. 4.00 - —
bbls., c.l., works.....100 lbs. 4.00 - —
l.c.l., works .....100 lbs. 4.40 - —
powd., bbls., c.l., works..100 lbs. 6.50 - —
l.c.l., works ..... 100 lbs 7.00 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate, bbls lb. .51 - .61
Sulphydrate, flake, 70-72%, dms., c.l. lb. .05¾- —
l.c.l., works..... lb. .06¼- —
liquid, 45%, basis 100%, tanks, works ton.95.00 - —
Thiocyanate, CP, dms..... lb. .55 - .65
tech., dms., works ..... lb. .30 —
Thiosulphate, tech. (see Sodium hyposulphite).
USP, cryst., bbls ..... lb. .10 .12
Titanate, dms., c.l., works..... lb. .10 - —
5 tons, works..... lb. .10¼- —
1 ton or less, works ..... lb. .10½- .13¼
Tripolyphosphate, bgs., c.l., works, 100 lbs. 7.25 - —
l.c.l. ..... 100 lbs. 7.65 - —
Tungstate, tech., kgs., works lb. 1.20 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethylcellulose—See CMC.
Sodium-cinchophen, bots., dms., works lb. 4.50 - 4.85
Sodium-formaldehyde, sulfoxylate, dlvd., dms..lb. .22 - .22¼
Sodium-sulpha drugs (see Sulpha name).
Sodium-titanium fluoride, fib. dms., c.l., works lb. .16½- —
l.c.l., works..... lb. .17½- .20
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works... lb. .28 - —
less 1,000 lbs., same basis .lb. .30 - —
Solvent naphtha, coal tar, tanks, works gal. .25 - .3233
high-flash, tanks, works gal. .25 - .3235
Petroleum, 100° F., flash, tanks, Baytown, Tex gal. .25 - —
150 F. flash, tanks, same basis gal. .25 - —
Sorbitol, cryst., pellets, dms., c.l., works lb .30 - —
ton lots, works ..... lb. .33 - —
solution, commercial, aqueous, dms., c.l., works lb. .23¼- —
ton lots, works..... lb. .24¼- —
less ton lots, works lb. .25 — —
regular, 70%, aqueous, dms., c.l., works lb. .16½- —
ton lots, works ... lb. .17¾- —
less ton lots, works lb. .18½- —
tanks, works ..... lb. .15¾- —
Soybean meal, 41% bulk, Decatur ton.62.00 - —
protein, chemically isolated, 40,000 lbs., works lb. .18 — —
20,000 lbs., works ..... lb. .18¼- —
smaller lots, works .. lb. .18½ .22
mechanically refined, bgs., 40,000 lbs., works lb 0575- —
20,000 lbs., works ..... lb 0590- —
smaller lots, works....lb. .0605- —

Cowles CHEMICALS

DRYMET

THE ECONOMICAL DETERGENT SILICATE

Cowles DRYMET, anhydrous sodium metasilicate, is the most highly concentrated form of sodium metasilicate available. It is more economical to use, on the basis of both Na_2O (alkalinity) and SiO_2 (silicate) than any other type of hydrated or anhydrous detergent silicate, either compounded or by itself. DRYMET contains no water of crystallization.

DRYSEQ*

THE ALL-PURPOSE DETERGENT SILICATE

Cowles DRYSEQ, anhydrous sodium sesquisilicate, is a medium pH alkaline cleaner which will do fast, dependable work at a low cost to the user. It is a white, free-flowing powder, quickly and completely soluble in hot or cold water—containing 56.75% Na_2O—making it an economical base material for compounding.

DRYORTH*

THE HEAVY-DUTY DETERGENT SILICATE

Cowles DRYORTH, anhydrous sodium orthosilicate, is a powerful, speedy, heavy-duty cleaner with valuable penetrating and wetting-out properties, reinforced dirt-removing power and unusual emulsifying action. It is an anyhdrous, free-flowing powdered silicate containing not less than 60% Na_2O, which may also be used as an economical constituent of high pH cleaning compounds.

CRYSTAMET*

THE MEDIUM pH DETERGENT SILICATE

Cowles CRYSTAMET is a pure, perfectly white, free-flowing granular pentahydrate sodium metasilicate with the normal 42% water of crystallization. Suggested for compounding when it is desirable to lower the concentration of a finished product. Readily soluble—chemically stable—easy to handle. Can be used on medium pH jobs.

We'll be glad to send you our DRYMET File Folder containing complete technical information and suggested formulations.

PROMPT SHIPMENTS FROM CONVENIENT WAREHOUSE STOCKS....

*Reg. U. S. Pat. Off.

Cowles Chemical Company

HEAVY CHEMICAL DEPARTMENT • CLEVELAND 3, OHIO

Sparteine sulphate, cns.....oz. 2.95 - —
Spearmint leaves, bls.....lb. .52 - .56
Spikenard root, bls.....lb. .40 - .45
Spruce extract, liq., reg., tanks, works..lb. .01¾- —
powd., super, bgs., c.l., works. lb. .03¼- —
Squaw vine, leaves, bls.....lb. .33 - .38
Squill, red, fortified, powd., bbls. boxes..lb. 1.50 - 1.60
White, bls.....lb. .11 - .13
powd., bbls., bxs.....lb. .16 - .18
St. Ignatius beans, bgs.....lb. No stocks.
St. John's bread, edible, bls.....lb. .17 - .18
Stainless steel flake, dry, dms., works..lb. 1.50 - —
paste, dms., works.....lb. 1.25 - —
Stannous chloride (see Tin chloride, stannous).
Starch, corn, pearl, paper bgs., c.l. 100 lbs. 5.37 - —
Chicago.....100 lbs. 4.72 - —
l.c.l.....100 lbs. 5.52 - —
powd., paper bgs., c.l....100 lbs. 5.48 - —
Chicago.....100 lbs. 4.83 - —
l.c.l.....100 lbs. 5.63 - —
Prices for corn starch in cotton bags, 17c. higher.
Potato, dom., bgs., c.l.....lb. .0639- —
l.c.l.....lb. .0735- —
Rice, bgs.....lb. .11½- —
Sweetpotato, bgs., c.l.....lb. No stocks.
Wheat, bgs.....lb. .0618- .0625
Stavesacre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls.....lb. .35 - .38
Stoneroot, bls.....lb. .07½- .08
Storax, USP, cs.....lb. 1.50 - 1.60
Stramonium leaves, bgs.....lb. .19 - .20
seed, bgs.....lb. .20 - .21
Streptomycin, hospitals, vials..gram. .80 - —
wholesalers, vials.....gram. .64 - —
Strontium bromide, NF, cns., dms., lb. .62 - —
Carbonate, 90%, bbls.....lb. .15½- .16¼
Chloride, tech., bbls.....lb. .22 - .24
Chromate, bgs., frt. equald....lb. .43½- .44
Iodide, jars, 25 lbs.....lb. 3.60 - —
Nitrate, bbls., c.l., works.....lb. .09¼- —
l.c.l., works.....lb. .10¼- —
Oxalate, bbls., works.....lb. .42 - .44
Salicylate, NF, dms.....lb. 1.25 - 1.32
Sulphate, air-floated, 90% 325 mesh, bbls., works..ton.58.00 - —
Strontium-calcium sulphide, phosphorescent, dms., works..lb. 2.50 - 2.85
Strophanthin, NF, bots.....oz.39.00 - —
Strophanthus seed, Kombe, bgs..lb. 3.00 - 3.25
Strychnine, NF, powd., cns., 100 ozs. oz. 1.25 - —
Phosphate, NF, 100 ozs.....oz. 1.14 - —
Sulphate, USP, powd., cns., 100 ozs..oz. 1.00 - —
Styrene, monomer, tanks, works..lb. .15 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .60 - —
tech., bbls., l.c.l., works....lb. .55 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphabenzamide, dms., works...lb. 4.25 - 4.60
Sulphabenzamide sodium, dms., works..lb. 4.25 - 4.60
Sulphadiazin, USP, dms., works lb10.25 -10.75
Sulphadiazin sodium, USP, dms., works..lb.11.25 -11.75
Sulphaguanidin, USP, dms., works. lb. 4.50 - 4.60
Sulphamerazin, USP, dms., works lb.10.25 -10.75
Sulphamerazin, sodium, USP, dms., works..lb.11.25 -11.75
Sulphanilamide, USP, powd., bots., works..lb. 1.30 - 1.50
Sulphanilamide, 20-60 mesh, 10c. higher.
Sulphanilamidoquinoxaline, veterinary, dms lb.20.00 - —
Sulphapyridin, NF, powd., bots., tins, works..lb. 7.00 - 7.50
Sulphapyridin-sodium, powd., bots., dms., works..lb. 7.50 - 8.00
Sulphathiazole, USP, powd., dms., works..lb. 3.50 - 3.80
Sulphathiazole-sodium, USP, dms., works..lb. 3.50 - 3.80
Sulphur, com'l, rubbermakers, bgs., c.l., works..100 lbs. 1.75 - —
l.c.l., works.....100 lbs. 2.10 - 2.45
crude, c.l., bulk, mines, contract, long ton.18.00 - —
vessel, f.o.b. Gulf ports, export, long ton.22.00 - —
flour, com'l, 90½%, bgs., c.l., works..100 lbs. 1.60 - —
l.c.l., works.....100 lbs. 1.95 - 2.30
precipitated, USP, bbls., kgs..lb. .27 - .29
refined, flour, light refined, USP, bgs., c.l., works..100 lbs. 3.00 - —
l.c.l., works.....100 lbs. 3.35 - 3.70
heavy, bgs., c.l., works.100 lbs. 2.80 - —
l.c.l., works.....100 lbs. 3.15 - 3.50
Flowers, USP, bgs., c.l., works.. 100 lbs. 3.85 - —
l.c.l., works.....100 lbs. 4.20 - 4.60
Sulphur flowers in bbls., 75c. higher.
rock, bgs., c.l., works...100 lbs. 2.40 - —
l.c.l. works ....100 lbs. 2.75 - 3.10
rolls, bgs., c.l., works....100 lbs. 2.70 - —
l.c.l., works .....100 lbs. 3.05 - 3.70
rubbermakers' bgs., c.l., works. 100 lbs. 2.35 - —
l.c.l., bgs., works.....100 lbs. 2.70 - 3.05
Chloride, 55-gal. dms., c.l., works. lb. .03¼- —
l.c.l., works.....lb. .04¼- —
10-gal. dms., l.c.l., works.....lb. .03¼- —
Dioxide, liquid, com'l, cyls., works. lb. .09 - —
multi-unit cars, works....lb. .0535- —
tanks, works .....lb. .045 - —
refrigeration, cyls., l.c.l., dlvd..lb. .18 - —
Sumac bark, 28%, grd., bgs., ex dock .....ton.65.00 -66.00
Extract, No. 1, bbls., 25%.....lb. .10½- —
No. 2, bbls., 25%.....lb. .09 - —
crystals, bbls. .....lb. .40 - —
stainless, bbls. .....lb. .14½- —
Leaf, 28% grd., bgs., ex-dock, ton.67.00 -68.00
Superphosphate run-or-pile, under 22% a.p.a. pulv., bulk, Baltc unit-ton. .76 - .77
triple, 48% or more, a.p.a., pulv., bulk, Tampa, Fla..unit-ton. .83 - —
Prices on 48% triple superphosphate in other states and D.C. are per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls.....lb. 1.50 - 1.70

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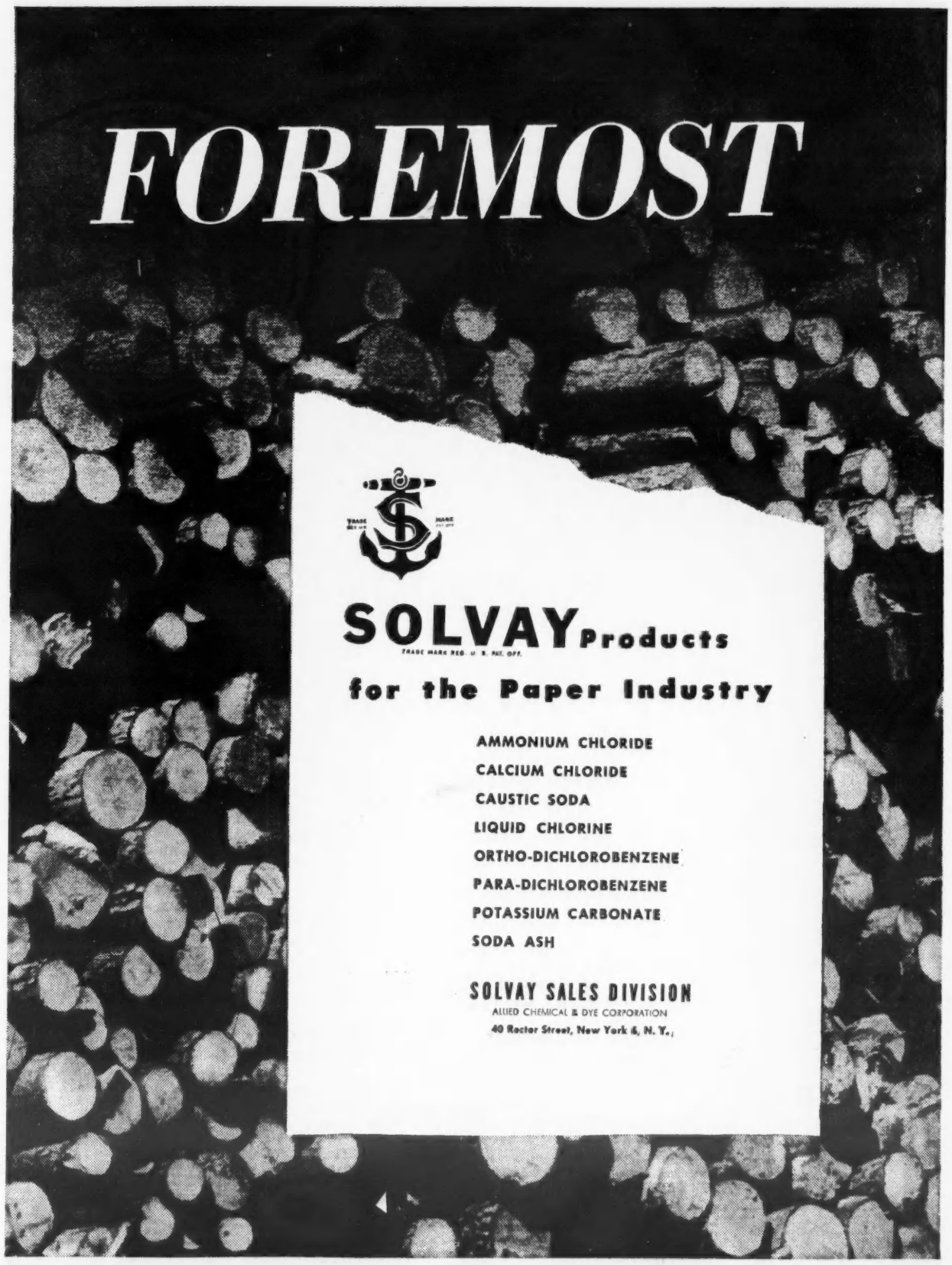
Talc, dom., ordinary, grd., Calif., bgs., c.l., works ton.25.00 -35.00
Vermont, bgs., c.l., works ton.14.00 - —
l.c.l., works .....ton.17.50 - —
fibrous, New York, off-color, grd., bgs., c.l., works.. ton.24.00 - —
l.c.l. .....ton.26.50 -28.00
98.5-99.5%, 325 mesh, bgs., c.l., works..ton.23.00 -28.00
l.c.l., works.....ton.25.00 -32.00
imp., Canada, grd., bgs., c.l..ton.20.00 -45.00

Tallow, inedible, extra, loose, c.l., dlvd..lb. .05¾- —
fancy, loose, same basis.....lb. .06⅛- —
special, loose, same basis.....lb. .05¾- —
sulphonated, 25%, dms.....lb. .06 - .06⅛
50%, dms. .....lb. .08½- .09
Tamarind, W. I., bbls.....lb. .10 - .13
kegs .....keg.10.00 - —
Tankage, animal, feeding, 9-11% ammon, bulk..unit-ton. 9.00 - —
Chicago .....unit-ton. 9.00 - —
fertilizer, 9% ammon., 10% b.p.l., Chicago..unit-ton..No stocks.
10-11% ammon., 15% b.p.l., bulk..unit-ton. No stocks.
Tansy leaves, bls .....lb. .24 - .30
Tapioca flour, high grade, bgs....lb. .09 - .09¼
medium grades, bgs.....lb. .08 - .08¼
low, bgs .....lb. .07 - .07¼
Java, bgs .....lb. No stocks.
Tar acid oil, 15-18%, dms., c.l., frt. equald..gal. .41 - —
l.c.l., same basis.....gal. .44 - —
tanks, same basis .....gal. .33 - —
25-28%, dms., c.l., works.....gal. .48 - —
l.c.l., same basis.....gal. .51 - —
tanks, same basis .....gal. .40 - —
30-33%, dms., c.l., same basis.. gal. .60 - —
l.c.l., same basis.....gal. .63 - —
tanks, same basis.....gal. .52 - —
Tar coal (see Coaltar).
Pine (see Pinetar).
Tara pods, bgs., c.l., ex dock U. S. ports..long ton. No prices.
powd., bgs., c.l., same basis.... long ton.225.00 Nom.
Tarragon herb, bgs. .....lb. .45 - .50
Leaves, bgs.....lb. .80 - .90
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .46 - —
dms. .....lb. .47 - .51
USP, powd., bbls., dms., kgs..lb. .51 - .54

Terpin hydrate, com'l, bbls., c.l..lb. .24½- —
l.c.l. .....lb. .25 - .25½
NF, cryst., bbls., dms.....lb. .75 - —
powd., bbls., dms .....lb. .80 - —
Terpineol, Alpha (see A).
com'l, dms., c.l., South.....lb. .13½- —
l.c.l., South .....lb. .14 - —
tanks, South .....lb. .13 - —
prime, dms.....lb. .35 - .60
Terpinglycol ether, dms., c.l., works. lb. .19½- —
l.c.l., works.....lb. .20 - —
tanks, works .....lb. .19 - —
Terpinyl acetate, extra, cns., dms. lb. .60 - 1.03
prime, cns., dms .....lb. .55 - .95
Terra alba (see Gypsum).
Testosterone propionate, USP, 100 gms..gm. 3.75 - —
Tetrachloroethane, dms., works lb. .08 - .08½
Tetrachloroethylene, USP, 55-gal. dms., works..lb. .20½- .21½
smaller dms., works.....lb. .23½- .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate dms., works. lb. .70 - —
Pyrophosphate, 40%, cns., dms., works..lb. .65 - .70
Tetraethylenepentamine, dms., c.l., works..lb. .51½- —
l.c.l., works.....lb. .52 - —
tanks .....lb. .50 - —
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium sulphate, 99%, bots., dlvd. lb.13.00 -15.50

Theobromine, bots., kgs.....lb. 5.00 - —
Salicylate, fib. dms .....lb. 5.00 - 5.25
with sodium acetate, USP, fib. dms..lb. 4.00 4.45
Sodio-Salicylate, fib dms.....lb. 3.15 3.50
Theophylline, USP, bots., kgs....lb. 6.00 6.15
Thiamine hydrochloride, USP, dms., 100 grams..kilo.160.00 - —
Thiocarbanilide, dms.....lb. .34 - .35
Thiodiphenylamine (see Phenothiazine).
Thiouracil, dms., works.....lb. 5.50 6.60
Thiourea, tech., dms., c.l., works lb. .42 - —
l.c.l., works.....lb. .44 - —
Thorium nitrate, cs., works.....lb. 3.50 - —
Threonine, dextro-laevo, 100 grams 115.00 - —
Thyme, French, bgs.....lb. .16 - .16½
Spanish, bls. .....lb. .08½- .09
Thymol, USP, kgs.....lb. 3.65 3.75
Iodide, NF, dms. .....lb. 6.80 6.90
Timbo root (see Cube root).
Tin chloride (stannous), anhyd., dms lb. .83 - .84
Crystals, hydrous, bgs., bbls., works..lb. .68 - —
Metal, R.F.C.....lb. .96 - —
Straits .....lb. .95 - —
Oxide, bbls .....lb. .96 - .97
Sulphate, stannous, bbls., kgs., works..lb. .94 - .96
Tetrachloride, anhyd., dms., wks. lb. .56½- .57½
Titanium dioxide, anatase, chalk-resistant, bgs., c.l., dlvd..lb. .19½- —
l.c.l., dlvd .....lb. .20 - .20½
plain, bgs., c.l., dlvd.....lb. .19½- —
l.c.l., dlvd .....lb. .20 - .20½
rutile, natural, granular, bgs., c.l., works..lb. .05 - —
5-ton lots, works.....lb. .05¼- —

Sparteine Sulphate—Titanium Dioxide



Titanium Dioxide, Rutile, Natural—Wattle Bark Extract

Titanium dioxide, rutile, nat., milled, bgs., c.l., works....lb. .05¼- —
5-ton lots, works.....lb. .05½- —
nonchalking, bgs., c.l., dlvd. E. lb. .21½- —
l.c.l., dlvd. E.....lb. .22 - .22½
Hydride, cns., works.....lb. 7.00 - 9.00
Titanium pigment, calcium-rutile, base, bgs., c.l., dlvd..lb. .07½- .07¾
l.c.l., dlvd.....lb. .08 - .08¼
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse. ½c. higher.

Tetrachloride, CP, 53-gal. dms. lb. .54½- .55
smaller, pkgs., works.....lb. .65 - 1.22
technical, 5-gal. dms., works..lb. .32 - —
smaller pkgs., works.....lb. .40 - 1.00
Tolu balsam, cns., dms.....lb. 2.00 - 2.80
Toluene (see Toluol).
Tolidin base (see Orthotolidin.)
Toluol, coaltar, industrial and nitration, tanks, works:—
Bethlehem, Pa.....gal. .21½- —
Birmingham, Ala.....gal. .20¼- —
Chicago district.....gal. .23½- —
Cleveland district.....gal. .23 - —
Dangerfield, Tex.....gal. .23½- —
Geneva, Utah.....gal. .19 - —
Hamilton, Ohio.....gal. .22 - —
Johnstown, Pa.....gal. .20 - —
Lackawanna, N. Y.....gal. .23 - —
Philadelphia, Pa.....gal. .24 - —
Pittsburgh district...gal. .20 - —
Sparrow's Point, Md..gal. .21½- —
St. Louis, Mo.....gal. .25 - —
Syracuse, N. Y.....gal. .20½- —
Terre Haute, Ind.....gal. .24½- —
Woodward, Ala.....gal. .20¼- —
Wyandotte, Mich.....gal. .23 - —
Youngstown, Ohio.....gal. .20½- —

Toluol, petroleum, industrial, 2°, tanks, works:—
Albany, N. Y.....gal. .28 - —
Bayonne, N. J.....gal. .28 - —
Baytown, Tex.....gal. .25 - —
Chicago, Ill.....gal. .27 - —
Detroit, Mich.....gal. .28 - —
Philadelphia, Pa....gal. .28 - —
Providence, R. I....gal. .28 - —
Sewall's Point, Va..gal. .25½- —
Wood River, Ill....gal. .25 - —
Tonga, 50% bark and vine, bls.....lb. .80 - .95
Tonka beans, Angostura, cks....lb. 1.75 - 1.80
Brazilian, cs.....lb. .85 - .90
Surinam, cs.....lb. .85 - .95
Toxaphene, dms., works, c.l.....lb. .20 - —
truckloads, works.....lb. .20 - —
ton to truckloads, works.....lb. .23 - —
less than tons, works.....lb. .30 - —
Totaquine, USP, 100-oz. lots.....oz. .42 - —
Triacetin, dms., dlvd.....lb. .35½- —
Tributyl citrate, dms.....lb. .41 - .43
smaller containers.....lb. .48 - .52
Phosphate, dms., c.l., frt. alld..lb. .56½- —
l.c.l.....lb. .57½- —
smaller containers.....lb. .71 - —
Tributylamine, oms., c.l., works..lb. .78 - —
l.c.l., works.....lb. .81 - —
Trichlorbenzene, dms., c.l., works, frt. alld. or equald..lb. .10 - —
l.c.l.....lb. .11 - —
tanks.....lb. .08½- —
Trichloroethane, dms., c.l., works lb. .12 - —
l.c.l., works.....lb. .13 - —
tanks, works.....lb. .11 - —

Trichloroethylene, tanks, c.l., frt. alld., zone 1..lb. .10½- —
Zone 2.....lb. .11 - —
Zone 3.....lb. .11¼- —
Zone 4.....lb. .11 - —
Trichloroethylene, dm., c.l., prices ½c. higher, l.c.l. 1¼c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. H., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.
Tricresyl phosphate, coaltar, dms., c.l., dlvd..lb. .35 - —
l.c.l., dlvd.....lb. .35½- —
tanks, dlvd.....lb. .33½- .34
petroleum, dms., c.l., dlvd..lb. .34½- —
l.c.l., dlvd.....lb. .35 - —
tanks, dlvd.....lb. .33 - —
Triethanolamine, dms., c.l., frt. alld. E..lb. .23 - —
l.c.l., same basis.....lb. .24 - —
tanks, same basis.....lb. .21½- —
Triethyl citrate, oms.....lb. .34 - .36
smaller containers.....lb. .39 - .45
Phosphate, dms., works, c.l....lb. .38 - —
dms., l.c.l., same basis...lb. .39 - —
tanks, same basis.....lb. .37 - —
Triethyleneglycol, dms., c.l., frt. alld. E..lb. .20½- —
l.c.l., same basis.....lb. .21½- —
tanks, same basis.....lb. .19 - —
Triethylenetetramine, dms., c.l., works..lb. .51¼- —
l.c.l., works.....lb. .52 - —
tanks.....lb. .50 - —
Trimethylamine, 25%-40%, dms., c.l., works, basis 100%..lb. .38 - —
l.c.l., works, basis 100%..lb. .38½- —
tanks, works, basis 100%....lb. .33 - —

Trimethylhexanol, dms., c.l., works, lb. .29¼- —
l.c.l., works.....lb. .30 - —
tanks, works.....lb. .28 - —
Tripentaerythritol, bgs., l.c.l., works, lb. .38 - —
Triphenyl phosphate, bbls., c.l., frt. equald..lb. .31 - —
l.c.l., frt. equald.....lb. .32 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripoli, air-floated, bgs., c.l., works, lb. .0175-
double-grd., bgs., c.l., works...lb. .016 - —
single-grd., bgs., c.l., works...lb. .015 - —
Trisodium fluoroacetate (see sodium fluoroacetate tribasic).
Trisodium pnosphate (see Sodium phosphate, tribasic).
Trypsin, 1:25, dms., works.....lb. 2.30 - —
1:50, dms., works.....lb. 4.25 - —
1:75, dms., works.....lb. 5.50 - —
1:100, fib. dms., works.....lb. 5.50 - —
Tryptophane, dextro-laevo, fib. cns., works kilo.207.00 -242.00
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms. works lb. 4.75 - —
Oxide, kgs., works.....lb. 2.85 - —
Turmeric root, Alleppey, bgs.....lb. .38 - .38½
Haitian, bgs.....lb. .11½- .12
Jamaica, bgs.....lb. .12 - .13
Madras, bgs., futures.....lb. .21 - .21½
Turpentine, gum (see Naval Stores Protective Coatings market)
Sulphate, ret. dms., East.....gal. .23 - —
Wood dest. dist., dms., incl., c.l., works, South..gal. .40 - —
l.c.l., same basis.....gal. .41 - —
N. Y. whse.....gal. .45 - —
tanks, works, South.....gal. .27½- —
steam-dist., dms., incl., c.l., works..gal. .50 - —
l.c.l., works, South.....gal. .56 - —
ex whse., NYC.....gal. .64 - —
tanks, works.....gal. .34 - —
Tyrothricin, bots.....gram. 1.15 - 1.25

U

Urethane, USP, dms.....lb. 1.75 - —
Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs.....lb. 2.55 - —
yellow, kgs.....lb. 1.65 - —
Urea, dom., 46% N, bgs., c.l., wks. lb. .04½- —
l.c.l., works.....lb. .05 - —
Fertilizer compound, 42% N, bulk, c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex. and east..ton.94.00 - —
42% N, bulk, distributors, c.l., 40 tons, frt. alld. Colo., Mont., Wyo., and west..ton.103.58 - —
paper bgs., c.l., 30 tons, frt. alld., Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east.....ton.98.00 - —
40 tons, distributors, frt. alld. Colo., Mont., Wyo., and west ton.107.15 - —
Urea-ammonia liquor, A and B grades, N basis, Belle, W. Va..ton.125.00 - —
C and D grades, same basis, ton.123.50 - —
37 grade, same basis.....ton.147.50 - —
Uva ursi leaves, bls.....lb. .10 - .14

V

Valerian root, Belgian, NF, bls..lb. .45 - .50
Valine, dextro-laevo, dms., works.lb.22.50 -27.50
Valonia beards, bgs., ex dock..ton. No stocks.
Cups, bgs., ex dock.....ton.75.00 - —
Extract, powd., bgs., ex dock, duty extra lb. .14½ Nom.
Vanadium pentoxide, CP, bgs., cns., works lb. 7.00 - —
tech., dms., works.....lb. 1.00 - 1.06
Vanilla beans, Bourbon, tins....lb. 3.00 - 3.75
Mexican, cuts, tins.....lb. 3.75 - 4.00
whole, tins.....lb. 4.00 - 4.50
Vanillin, ex eugenol, tins, 25 lbs lb. 4.00 - —
smaller lots.....lb. 4.05 - —
ex guaicol, tins, 25 lbs.....lb. 3.00 - —
smaller lots.....lb. 3.05 - 3.15
ex lignin, tins, 25-lb. lots.....lb. 3.00 - —
smaller lots, tins.....lb. 3.05 - 3.15
Vinyl acetate, 55-gal. dms., works lb. .16½- .17¼
5-gal. cns., works.....lb. .30 - —
tanks, works.....lb. .15 - —
Trichloride (see Trichloroethane).
Ether (see Ether, divinyl).
Vinylpyridin, ret. dms., works...lb. 1.50 - —
Viosterol, bots., 10 billion USP units, mill. units. .025 - —
1 billion USP units mill. units. .03 - —
less than 1 billion USP units mill. units. .035 - —
Vitamin A, natural, acetate, bots., cns., dms., 200,000 to 350,000 A units per gm 1,000,000 units. .30 - .34
351,000 to 450,000 A units per gm 1,000,000 units. .32 - .36
451,000 to 750,000 A units per gm 1,000,000 units. .38 - .42
751,000 or more A units per gm 1,000,000 units. .40 - —
Minimum prices on natural Vitamin A acetate above prevail on quantities of five billion or more A units; the maximum of the above price range prevails on quantities less than one-half billion A units.
A, natural, concentrates (see Oil, fishliver).
A, synthetic, acetate, 1,000,000 A units, per gm 1,000,000 units. .48 - —
A, synthetic, palmitate, 800,000 A units per gm 1,000,000 units. .50 - —
D_2 (see Calciferol).
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
Vitamin B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol and Viosterol).
Vitamin D_3 (see Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-F (see Acid, nicotinic, and Nicotinamide).
H (see Biotin).
Violet, methyl toner (see Blue, methylviolet toner).
V.M.P. naphtha (see Petroleum naphtha).
Vitamin A (see Oils, codliver, fishliver).

W

Wahoo root bark, bls.....lb. 1.50 - 1.75
Tree bark, bls.....lb. .55 - .75
Wattle bark, fair average, or E. Afr., bgs., ex dock..ton.68.00 Nom.
merchantable, bgs., ex dock.ton.65.00 Nom.
extract, liquid, 35% tannin, bbls., works lb. .04¾- .05
tanks, works.....lb. .04¼- —
solid, E. Afr., 61% tannin, ex dock, duty extra lb. .06¾ Nom.
S. Afr., 62% tannin, ex dock, duty extra lb. .06¾ Nom.

How many ways do you use

Sodium Phosphates?

V-C Sodium Phosphates are widely used in the manufacture of cleansers and detergents, and in water treatment. But V-C Sodium Phosphates also have countless other uses which make them versatile, dependable "work horses" of the chemical industry. Produced from phosphoric acids, made from elemental phosphorus, they are of the highest purity.

V-C DSP

V-C Disodium Phosphate is employed by the textile industry in dyeing, scouring, kier-boiling and boiling-off operations. It serves as a plasticizer in processing cheese; and is used in tanning; in ceramic glazes; in metal treatment; and in emulsifying condensed milk. V-C DSP, in an exceptionally pure Drug Grade, is extensively used in pharmaceuticals.

V-C TSP

V-C Trisodium Phosphate is one of the most widely used emulsifiers and water softeners. It also has special utility in asphalt emulsions; fireproofing compositions with ammonium salts; photographic developers; and adhesives.

V-C TSPP

V-C Tetrasodium Pyrophosphate is used in textile and paper processing; in the manufacture of ceramics; as a buffer salt in cosmetics and food products; and as an ingredient of insecticides and ink eradicators.

V-C STPP

V-C Sodium Tripolyphosphate with its sequestration properties is used in drilling fluids for mud treatment; in cold-water paints of the casein-lithopone type; in cement to delay setting time; in cheese manufacture; in textile and leather processing; as a dispersing and peptizing agent in clay purification; and in laundry cleansers.

These are only a few of the many uses which have made V-C Sodium Phosphates famous for their quality and purity. V-C Sodium Phosphates are as close to you as your telephone. Place your order today for shipment by rail or water . . . or 48-hour truck delivery in Middle Atlantic and Southeastern states.

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Trisodium Phosphate • Tetrasodium Pyrophosphate
Sodium Tripolyphosphate
CALCIUM PHOSPHATES
Monocalcium Phosphate • Lucky Leaven® Phosphate
Phosphate Paste

VC CHEMICALS ®

Wax, amorphous (see Wax, microcrystalline).			
Bayberry, bgs., spot	lb.	.50	.55
Bees, bleached, USP, white, bricks, cs.	lb.	.64	.65
slabs, bgs	lb.	.63	.64
crude, African, bgs	lb.	.45	.47
western hemisphere, bgs.	lb.	.47	.49
refined, yellow, bricks, cs.	lb.	.56	.57
slabs, bgs	lb.	.55	.56
Candelilla, crude	lb.	.46	.48
refined, bgs	lb.	.49	.50
Powdered candelilla, 20 mesh, 5c. per lb extra; 80 mesh, 5½c.; 100-200 mesh, 6c.			
Carnauba, chalky, bgs. ton lots	lb.	.79	Nom.
North Country, No. 2, ton lots	lb.	.85	.86
No. 3, crude, bgs., ton lots	lb.	.81	.83
refined, bgs., ton lots	lb.	.85	.86
yellow, No. 1, bgs., ton lots	lb.	1.10	1.12
No. 2	lb.	1.08	1.10
Powdered carnauba price same as powdered candelilla. differentials			
Ceresin dms., 132°-136° m.p., bgs.	lb.	.12½	.13
138°-140° m.p., bgs	lb.	.14½	.15
150°-160° m.p., bgs	lb.	.17	.17½
Japan, bgs	lb.	.75	.77
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 20,000 lbs., group 3, works	lb.	.14	—
Less than 20 000 lbs., same basis	lb.	.15	—
black, ctns., 20,000 lbs., same basis	lb.	.12½	—
Less than 20,000 lbs., same basis	lb.	.13½	—
white, ctns., 20,000 lbs., same basis	lb.	.25	—
Less than 20,000 lbs., same basis	lb.	.26	—
180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis	lb.	.16	—
Less than 20,000 lbs., same basis	lb.	.17	—
black, ctns., 20,000 lbs., same basis	lb.	.14½	—
Less than 20,000 lbs., same basis	lb.	.15½	—
white, ctns., 20,000 lbs., same basis	lb.	.27	—
Less than 20,000 lbs., same basis	lb.	.28	—
190°-195° m.p., ASTM, amber, ctns., 20,000 lbs., same basis	lb.	.20½	—
Less than 20,000 lbs., same basis	lb.	.21½	—
black, ctns., 20,000 lbs., same basis	lb.	.19	—
Less than 20,000 lbs., same basis	lb.	.20	—
white, ctns., 20,000 lbs., same basis	lb.	.33½	—
Less than 20,000 lbs., same basis	lb.	.34½	—
Montan, dom, black ref	lb.	.31	.32
raw	lb.	.25	.25½
Bohemian, bgs	lb.	.21½	.22
German, bgs	lb.	.24	.25
Ouricury, refined, bgs., ton lots,	lb.	.76	.77
Ozokerite, fabricated, black, 180-190 m.p., bgs	lb.	.31	—
132-183 m.p., bgs	lb.	.29	—
171-172 m.p., bgs	lb.	.27	—
white, 178-183 m.p., bgs	lb.	.26	.27
170-172 m.p., bgs	lb.	.22	.23
yellow, 180-190 m.p., bgs	lb.	.25	.26
182-183 m.p., bgs	lb.	.20	.21
178-183 m.p., bgs	lb.	.21	.21½
170-172 m.p., bgs	lb.	.18	.19
Spermaceti, blocks, cs	lb.	.32	.33
cake, cs.	lb.	.33	.34
Sugar cane, crude, imp. bgs	lb.	.35	.37
refined, dom., slabs, works	lb.	.60	.65
imp. bags, N.Y.	lb.	.41	.43
White lead (see Lead, white).			
White pine bark, rossed, bls	lb.	.13	.20
White precipitate, USP, powd., dms., 50 lbs	lb.	2.00	—
Whiting, limestone, dry-grd., 99.5%, 325 mesh, bgs., c.l., works.	ton.	6.50	-10.00
smaller lots, works	ton.	6.50	-15.00
wet-grd., bgs., c.l., works	ton.	16.00	-30.00
smaller lots, works	ton.	21.00	-35.00
Paris white, bgs., c.l.	ton.	23.00	-31.00
l.c.l.	ton.	25.00	-29.00
Precipitated, bgs., c.l.	ton.	18.00	-20.00
l.c.l.	ton.	22.00	-25.00
Wild cherry bark, thick, natural, bls.	lb.	.06	.07
rossed, bls	lb.	No prices.	
thin, natural, bls	lb.	.13½	.16
rossed, bls	lb.	.17	.18
Wild indigo root, bls	lb.	.30	.31
Wild yam root, bls.	lb.	.16	.17
Witch hazel leaves, bls	lb.	.14	.16
Woodflour, 40 mesh, bulk, c.l., works, East.	ton.	32.00	—
l.c.l., same basis	ton.	40.00	—
60 mesh, bulk, c.l., same basis.	ton.	37.00	—
l.c.l., same basis	ton.	45.00	—
80-100 mesh, bulk, c.l., same basis.	ton.	40.00	-45.00
l.c.l., same basis	ton.	50.00	-55.00
Woodflour in bgs. extra, returnable.			
Woollat (see Lanolin).			
Wormseed, American, bgs	lb.	.13	.14
Levant, bgs	lb.	4.15	4.25
Wormwood leaves, bls	lb.	.40	.45

X

Xanthorrhiza root, bls	lb.	.28	.30
Xylene (see Xylol).			
Xylenol, 5° 7°, ref. dms., c.l., works, frt. equald	lb.	.21¾	—
l.c.l., same basis	lb.	.22¼	—
tanks, same basis	lb.	.21	—
45°, dms., l.c.l., frt. equald	lb.	.24	—
Xylenol, fractions, over 7° C. dms., c.l., same basis	gal.	.91	—
l.c.l., same basis	gal.	.94	—
tanks, same basis	gal.	.80	—
Meta fraction, over 7° C, dms., c.l., same basis	gal.	.96	—
l.c.l., same basis	gal.	.99	—
tanks, same basis	gal.	.85	—
Xylidins, mixed, dms	lb.	.45	.50
Xylol, coaltar, industrial, tanks, works —			
Bethlehem, Pa	gal.	.26	—
Birmingham, Ala	gal.	.23¼	—
Chicago district	gal.	.26½	—
Cleveland district	gal.	.26	—
Dangerfield, Tex.	gal.	.27	—
Hamilton, Ohio	gal.	.25	—
Johnstown, Pa	gal.	.24	—
Lackawanna, N. Y.	gal.	.24	—
Pittsburgh district	gal.	.23	—
Sparrows Point, Md.	gal.	.26	—
St. Louis, Mo	gal.	.28	—
Syracuse, N. Y.	gal.	.23½	—
Terre Haute, Ind.	gal.	.26	—
Woodward, Ala.	gal.	.23¼	—
Wyandotte, Mich	gal.	.27	—
Youngstown, Ohio	gal.	.23½	.28
Petroleum, industrial, 10°, tanks, works:—			
Albany, N. Y.	gal.	.28	—
Bayonne, N. J.	gal.	.26	—
Baytown, Tex.	gal.	.25	—
Chicago, Ill.	gal.	.27	—
Detroit, Mich.	gal.	.28	—
Philadelphia, Pa.	gal.	.28	—
Providence, R. I.	gal.	.28	—
Sewall's Point, Va.	gal.	.25½	—
Wood River, Ill.	gal.	.27	—

Y

Yara, yara, ens	lb.	2.00	2.23
Yeast brewer's dry, USP, 50 B units, per gram, 100-lb. dms	lb.	.44	46
90 B units, per gram, 100 lb. dms	lb.	.49	.51
200 B units, per gram, 100 lb. dms	lb.	.53	.55
300 B units, per gram, 100 lb. dms	lb.	.57	.59
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis St. Paul	lb.	.32	—
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.			
Benzidin, bbls., dlvd	lb.	1.60	1.70
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies	lb.	2.65	—
Lithopone, all shades, bbls., frt. alld. E. of Rockies	lb.	.95	—
Cadmium yellows, Los Angeles and San Francisco, ex whse l.c. per lb. higher.			
Chrome, CP, bbls., dlvd. N. Tenn. and N. C. E. of Miss., including Davenport, Minneapolis, Rock Island,	lb.	.32	—
Dlvd. Ala.; Fla., Ga., La., (Shreveport) 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.			
Yellow, hansa, bbls., same basis as chrome	lb.	1.60	1.70
Primrose, bbls., same basis	lb.	1.90	2.10
Iron oxide, natural, bgs., c.l., works	lb.	.0141	.0250
l.c.l., works	lb.	.0166	.0273
French type, bgs., c.l.	lb.	.04½	—
l.c.l.	lb.	.04¾	—
Peruvian type, bgs., c.l.	lb.	.0185	.0210
synth. bgs., c.l. works	lb.	.09	—
l.c.l. works	lb.	.09¼	—
Mercury oxide, bbls., 1,000 lbs	lb.	1.93	—
smaller lots	lb.	1.95	—
Ocher American golden, bgs., works	lb.	.01¼	.02¾
Zinc, bbls. same basis as chrome	lb.	.23½	—
Yellow dock root, bls	lb.	.16	.25
Yellow xanthorrniza (see Xanthorrhiza)			
Yerba santa leaves, bls	lb.	.28	.30
Yohimbine hydrochloride vls	oz.	3.25	4.00

Z

Zein, bgs., 36,000 lbs., works	lb.	.30	—
1,000 lbs. to 36,000 lbs., works	lb.	.32	—
smaller lots, works	lb.	.35	—
Zinc acetate, tech., bbls., dms	lb.	.26¼	—
NF, dms.	lb.	.33	—
Arsenite, bgs., c.l., frt. alld. E of Rockies	lb.	No stocks.	
l.c.l., same basis	lb.	No stocks.	
Zinc borate, bgs., c.l. ship't pt., frt. alld., E	lb.	.12	.15½
frt. alld. Pac. Coast	lb.	.15	.17½
l.c.l., ship't pt., frt. alld. E	lb.	.12½	.16
frt. alld. Pac. Coast	lb.	.16¾	.19¼
Carbonate, tech., rubber makers, bgs., works	lb.	.10¾	.11¼
precip., powd., dms	lb.	26	—
Purified precip., dms	lb.	37	—
Chloride, tech., fused, dms., c.l., works	100 lbs.	7.00	—
l.c.l., works	100 lbs.	7.40	—
gran., bbls., c.l., works	100 lbs.	7.75	—
l.c.l., works	100 lbs.	8.15	—
solution, 50%, dms., c.l., works,	100 lbs.	3.90	—
l.c.l., works	100 lbs.	4.50	—
tanks, works	100 lbs.	3.25	—
NF, gran., dms	lb.	.42	—
Chromate (see Yellow, zinc).			
Cyanide, kgs., works	lb.	.38	.41
Dust, bbls., c.l., works	lb.	.1225	—
dlvd.	lb.	.1250	—
l.c.l., works	lb.	.1260	.1325
Fluoride, bbls., works	lb.	.40	—
Hydrosulphite, dms., c.l., frt. alld.	lb.	.17¼	—
l.c.l.	lb.	.17¾	.18
Iodide, NF, jars	lb.	4.85	—
Laurate, bbls	lb.	45	.46
Linoleate, solid, 9½%, bbls	lb.	.42½	—
Metal, slabs, E. St. Louis	lb.	.09¼	—
Naphthenate, liquid, 8% Zn., frt. alld.	lb.	.20¾	—
10% Zn. dms., frt. alld	lb.	.25½	—
Oleate, fused, bbls	lb.	.36	—

—Continued on page 59

SHORT CUT TO BETTER SUSPENSION

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(THE SURFACE-TREATED LITHOPONE)

These paints, shelf-aged for two months, show the better suspension properties obtained by using surface-treated Albalith-73 (Paint A) compared with an untreated pigment (Paint B). Both paints are identical in composition, except for the white hiding pigment, and are representative flat wall paints based on a proprietary vehicle. The amount of settling is shown by the depth of supernatant liquid in each jar. Probing with a spatula indicated no layer of settled pigment in Paint A, but already a thin layer of caked material in Paint B.

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Volume 156 October 24, 1949 Number 17

Antitrust Law Tinkering Deferred

Congress has postponed until January 20, 1950, its final consideration of the amending of the Federal Trade Commission and Clayton acts designed to remedy the, largely nonexistent, deleterious effects of the judicial approval of the FTC ban on the basing-point system of pricing. The two houses of Congress had reached a compromise on a bill with that purpose. Just why that outcome of their conference was laid aside by the senate is not clear; references to that action are about as misinformative as is the language of the bill itself.

It is good in every way that the so-called "basing-point" bill has not become law. For one thing, it had no direct reference to the basing-point pricing system—not even one that could logically be implied. It actually would have done nothing to change any application of the existing statutes to the use of a price basing point by an industry. It would have added much to the confusion already existing with reference to basing points. It could have wrecked competition in price, because, in word, if not in spirit, it would have made it illegal for a seller to make any change in the difference, if any there were, between his price and that of a competitor. The bill (section 2, B) definitely limits differentials between competitors' prices to those which one of them "customarily maintains."

It was quite evident throughout the history of the attempt to do something in response to the misinformed and misinforming clamor over the banning of the basing point that there was prevalent in Congress a substantial opinion that competition in price should be outlawed. The house-senate conferees characterized as unsound the contention that there was no competition when all sellers ask the same price. That opinion was encouraging, as was also the statement that injury to competition was not the same as injury to a competitor. But, they did not definitely set forth that underselling a competitor was not, in itself, destructive of competition.

In all the discussion on the so-called "basing-point" bill, there was a noticeable paucity, even absence, of any endeavor to make clear the fact that quoting a delivered price and allowing or absorbing freight, wholly or in part, are not always the same thing. There was still less noting of the usually disregarded fact that use of a basing-point system is much different from either of the other methods—and that such use was what the courts had outlawed. Some spokesmen for business have not done its public relations any good by their contention that banning of the basing point is a threat to an industry or destructive of competition. Informed persons know that those charges are not soundly based. They know that there is discrimination against certain buyers under the basing-point system. They know that a basing-point price is not a delivered price. When they are asked to believe that the contrary is true, they are naturally induced to become suspicious of all statements made in behalf of business. And there is already too much doubting in such connections.

The so-called "basing-point" bill would have done nothing but put a largely unnecessary patch on one section of the antitrust laws. The emendment of those laws —and they do need, at least, much clarification—should be a full-scope job. Putting on a patch wholly in response to largely misleading clamor is not at all desirable. It could do no good, and it might do much harm. Revision of the antitrust laws should be approached and prosecuted as a matter of logical national policy, not as a sop. And it would help a lot in all directions if their administration were placed in the hands of mature business executives instead of lame-duck politicians.

Economic Role of Research

Commentaries within the past two weeks on the role of research in business are surprisingly explicative of the lack of correlation in economic thinking. As that lack is one of the major reasons why business goes around in rings horizontally and persists in cycling vertically, a look at those commentaries may be educative.

One of the commentors, at a celebration by a technical school, ardently advocated the prosecution of basic technologic research in industry and the telling of its great part therein to the public. On the same occasion, another speaker, likewise an industrial executive, urged greater attention by technologists to the human problems of industry. A few days later, at a meeting of chemists, an industrial research executive expressed the belief that American industry might be approaching overproduction in research. He urged closer correlation of research activities to markets and available capital. On the same later day, another research director laid out, at another chemists' meeting, an index of financial return for measuring the effectiveness of research efforts. Along about the same time, several other commentators got into print with ideas on how millions of dollars would wisely be spent in research to combat billions of dollars in waste, much of which results from neglect, rather than ignorance.

There is more than a milligram of truth in each of those commentaries. They all point at something that should be done—but the doing of those things does not necessarily call for more research. If man would but learn how to make the optimum use of a small fraction of what he knows how to do, his progress would far outspeed and outreach that which is so popularly—and justly—attributed to technologic research.

The biggest area of opportunity indicated by the cited references to research is that of the social concomitants of technologic progress. Man is not properly equipped ethically or in less intimate social repects to make use of much of what is available for his acquisition. The aforementioned commentator who thought that engineering schools would some day include training in human relations in their curriculums should be assured that his thinking was sound; certainly, its objective is desirable. But, there is a real need for research, in efforts to find a way to balance the technologic progress of man with properly developed human qualifications. That cannot be done in engineering schools alone; it must be started in the home even before the kindergarten stage and carried through all stages of education.

Business, for all its mechanization, is wholly a matter of human behavior. Its real improvement can be effected only by way of humanizing developments. In more ways than one, technologic research has already been overproductive.

OPD Forum

An Outlet for Individual Opinion

(Anonymous communications will not be recognized, but a signer's name will be withheld at request.)

Bergamot Oil Outlook

The Editor,
OIL, PAINT AND DRUG REPORTER.
Sir:—

We have represented the Bergamot Consorzio of Reggio Calabria, Italy, for the last sixteen years and have recently received the following information, which we thought would be of interest to your readers.

The consorzio's letter reads as follows: "On March 5 an unprecedented snowfall lasting three days, something never recorded in Reggio Calabria, retarded the flowering period of the bergamot trees from five to six weeks. Consequently the exceptional heat wave that came during the middle of July and the first of August found the fruit very small, causing a considerable loss in the fruit itself. It has been calculated that the production during 1949-50 has been adversely affected so that the production will be 50 percent less than that of a normal year.

In view of the above conditions, the bergamot oil price was increased the beginning of September. The consorzio also advised us that they will try to take care of any normal demand for their product and will keep the price as low as possible and thus avoid any speculative interest that might arise from the shortage.
Brooklyn, N. Y.

CITRUS & ALLIED ESSENTIAL OILS COMPANY.

For the Bookshelf

THE ESSENTIAL OILS. By Ernest Guenther, Ph.D. Volume II: The Constituents of Essential Oils. Coauthor Darrell Althausen, Ph.D. Cloth; xiii+852 pages. New York: D. Van Nostrand Company. $10.

This second step in the Guenther undertaking is a long and important one. It is a compilation of data on several hundred of the more important natural constituents of essential oils, a group of chemical compounds which has grown tremendously out of the knowledge acquired through research over the past half-century, very much so in the eighteen years since the appearance of the latest edition of Gildemeister and Hoffmann. It is a most imposing discourse, with an index of some 2,200 items, in comparison with Parry's venture in the field of chemistry of essential oils about fifty years ago and the work of von Rechenberg a decade or so later.

Dr. Guenther and Dr. Althausen are both members of the technical staff of Fritzsche Brothers, Inc. — a name that long has been a part of the essential oil industry. They are being assisted in their encyclopedic reporting on the essential oil family by a half-dozen of their associates there. They acknowledge their indebtedness in this volume also to a number of other well-qualified technical members of the industry in this and other countries.

The result of the hard work and long collaboration is an impressive book. The treatises have been well authenticated, it appears, and the data have been given all possible modernization. Discoveries in their field come continuously, and the authors admit that they had finally to set a deadline to get the book printed. Old data were thoroughly checked. More attention is given than earlier to stereo forms. "Color tests have, in the main, proved unreliable; they have, therefore, been largely excluded from this text"—that statement is characteristic of the spirit and purpose by which the authors were guided.

The contents are arranged in three major divisions—(1) The Constituents of Essential Oils, (2) Terpenes, Sesquiterpenes, and Derivatives of Unknown Constitution, (3) The Preparation of Derivatives of Essential Oil Constituents. The third is fundamentally the work of Frances S. Sterrett, Ph.D. Each division is composed of a number of chapters based on chemical groups—hydrocarbons, alcohols, aldehydes, ketones, phenols, acids, esters, and so on. Footnote references are everywhere.

Essential oil chemists need many data because they are concerned with many forms of many compounds. One could flounder around for years working his way as far as he might read his way in a week. So, here are those data for him to read with a saving of time and work and a gaining of much useful knowledge,

—*Continued on page 38*

Washington Talks It Over

—*Continued from page 5*

varietal and other plant problems related to mechanization, such as defoliation, is also under way in the various States.

Among the initial studies in the program were investigations in crop residue disposal and seedbed preparation in Alabama, Arkansas, and Texas. Where to place fertilizer and use of machines for precision placement were subjects of study in Mississippi, and fertilizer studies also were undertaken in Georgia. In North Carolina, a differential fertilizer placement machine was designed and is under test. Alabama also inaugurated work on equipment and methods of applying anhydrous ammonia.

Weed and grass control research on cotton currently under way includes comparisons of mechanical, flame, and chemical means in Alabama, Arizona, Arkansas, California, Georgia, and Louisiana. Insect and plant disease control work has included investigation and demonstration of several new devices in Mississippi.

Cure for Colds

Some spokesmen for drug manufacturers believe that the industry is on the threshold of one of the most important developments since the discovery of penicillin. If things go as they hope, some of the firms are going to make millions, and a large share of the population will have easy access to remedies for the most troublesome complaint—the common cold.

It all has to do with antihistamines, the drugs which now are available only on doctors' prescriptions and are used principally for the treatment of certain allergies, such as hay fever. Certain of these products have been found to be excellent remedies for the common cold when applied in its earliest stages. Now FDA has authorized the over-the-counter sale of one of these products, and the way is opening up for millions of cold sufferers to get quick easy relief.

With the millions upon millions of cold sufferers here and over the rest of the world, the size of the market for antihistamine cold remedies is difficult to visualize, but it stands to reason that the early ones in this new field stand to make millions. It can be expected that now that one of the products has been released for over-the-counter sales, others may follow shortly.

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Mercurials, Iodides Bismuth Salts

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MERCURIC OXIDE RED TECHNICAL—employed in ointments as a stimulant antiseptic.

MERCUROUS IODIDE YELLOW N.F. – an antiluetic agent for oral therapy.

MERCURIC IODIDE RED N.F. – a potent germicide and antiseptic, diuretic and local irritant.

AMMONIATED MERCURY U.S.P. – a germicide and parasiticide generally used for skin infections.

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SODIUM IODIDE U.S.P. – an expectorant and for systemic iodine therapy either orally or parenterally.

AMMONIUM IODIDE N.F. – an expectorant combining the resolving action of iodides with the expectorant effect of ammonia.

BISMUTH SALTS

BISMUTH SUBCARBONATE U.S.P. – relieves emesis, protects digestive tract.

BISMUTH SUBSALICYLATE U.S.P. – gastrointestinal protective, antiluetic.

BISMUTH SUBGALLATE N.F. – gastrointestinal protective and dermatological agent.

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Heavy Chemicals

Antimony sulphide prices were reduced last week. Lower production costs occasioned by the recent decline in the metal accounted for the downward revision. Quicksilver prices were lower with buyers reluctant to purchase beyond current wants and desiring inducements to operate. Lead nitrate has not reflected the weakness in the lead market to date. Buying interest in zinc sulphate has slowed down but is expected to be resumed next month when many of the rayon mills renew contracts. Copper looked stronger than most of the nonferrous metals but the metal outlook in general was clouded by the continuance of the coal and steel strikes.

While inquiry for chlorine has increased, the overall demand for heavy chemicals did not appear as broad last week as noted earlier in the month. Current production of chlorine is running below requirements and a definitely tight supply condition has developed. Some producers stated that stocks at present are as short as during the war period. Cutback output of chlorine in an effort to keep caustic soda in balance combined with an increased consuming demand are reasons given for the present shortage. There has been no unusual rush to place soda ash contracts at the lately reduced prices. Producers are taking care of soda ash deliveries for a strikebound plant in the middlewest and the available supply has not been dented materially. There was still plenty of caustic soda to meet requirements and aside from chlorine, the entire heavy chemical list revealed no important shortages. The chlorates have been well sold through November. Glacial acetic acid sales to the rayon mills have shown improvement this month. Oxalic acid stocks are a little too comfortable. Copper sulphate shipments have fallen off sharply. Most of the nickel sulphate requirements have been leveled off.

Paper production based on a percentage of six-day capacity was 99.6 percent for the week ending October 15, according to the American Pulp and Paper Association. This compared with 96.6 in the preceding week, and 101.8 for the corresponding week in 1948.

Ammonium Bicarbonate—Buying interest has continued active so far this month. It was stated that the cracker bakeries are building up stocks for the holiday trade and the movement of bicarbonate has been of satisfactory seasonal dimensions.

Antimony Sulphide — Lower producing costs occasioned by the recent reduction in metal quotations have resulted in a downward revision in the price of sulphide. The current range is from 20c. to 23c. per pound for drums, delivered, depending upon quantities extending from 100 pounds to truckloads.

Bauxite — Domestic mine output of bauxite in the second quarter of 1949 was estimated at 332,553 long tons (dried equivalent) by the Bureau of Mines. Although final figures were not available for certain strike-bound operations in Arkansas, preliminary data indicated a gain of about 5 percent over the 317,738 tons (revised) produced during the first three months. Over 96 percent of the second-quarter total was mined in Arkansas, as production for other states taken together reached the lowest level in two years.

Imports from each of the three major sources of foreign bauxite declined during the second quarter. The total of 514,161 tons was below any three-month period since the end of 1947. Exports, all of which were shipped to Canada, totaled 10,617 tons in the second quarter.

Chlorine—Stocks short and market position tight. Demand has exceeded current production and shipments are running behind schedule. Passing of a heavy Summer demand for cylinders has been followed by an increased inquiry for tankcars. Plant difficulties has restricted output in some instances and delay in returning empty tankcars has tended to aggravate the regular flow of chlorine from producing points.

Copper Sulphate — Buying interest slowed down from all sources last week and the market assumed a quiet position. Stocks in Florida remained sufficient to meet requirements in that area but the steel strike has cutback industrial demand and the call for petroleum refining also dropped off. No new export inquiries, no change in prices.

Nickel Sulphate—Demand for plating uses did not appear as active as at the beginning of the month. While some producers have their output under contract, others had ample stocks to meet consuming requirements promptly. Prices remained unchanged.

Potash, Caustic—Sales of liquid are described as fair, with the soap trade the principal consumer. Shipments for textile use have improved, but it was stated the movement is below the normal average. The dry forms have moved in an irregular manner, with the chemical industry showing relatively little attention.

Potassium Carbonate — Glass specialty plants have continued to take both calcined and hydrated in good volume during the month. Production in most instances has been equal to demand. The liquid has found a quiet outlet, with textile mills occasionally taking quantities for actual wants.

Potassium Chlorate—Shipments moving steadily to match factories, and demand being fed from production, as there are no surplus stocks. November mostly under contract, but some material still available for next month. Perchlorate quiet, with market subject to competitive influences from importers and from a western producer.

Soda Ash—Firm at the late decline without showing any unusual buying interest. Shipments are of better volume than noted during the Summer months, and the spread of deliveries occasioned by the continuance of a strike at a producing plant has given the market a more active appearance. It was stated that any expansion of demand inspired by the recent lowering of prices was rapidly leveled off. Supply position described as comfortable, with prompt shipments available.

Soda, Caustic—Stocks continued adequate to meet requirements promptly. It was stated that shipments of liquid have held the gain noted at the turn of the month, but have shown no unusual expansion. The dry forms have remained relatively quiet. Both liquid and dry forms were available for prompt shipment.

Sodium Chlorate—Buyers can still purchase for November shipment, although most of next month's production is now under contract. Demand has been sustained at a high level in October, and has included both weed-killer and industrial requirements. The market position is firm but without suggestion of price change.

Sodium Nitrite—Some falling off in the volume of sales has been noted during the last half of the month. It was stated that metal, dyestuffs and meat-packing inventories had probably been brought up to a working level temporarily, at least.

Zinc Sulphate — Sales were slower in this market last week, with consumers apparently willing to await possible developments in the metal market. It is expected that the rayon mills will show more interest after the turn of the month, but at present there appears to be an absence of important buying interest.

Acids

Acetic—Sales of glacial to textile mills have increased this month and the outlook is said to be somewhat better than a month ago. Stocks have continued sufficient to meet demand without difficulty. No change in list prices has been announced.

Chromic—Consuming demand fair but not of unusual dimensions for plating uses. Sales reported somewhat smaller in volume than noted at the beginning of the month. Supply situation comfortable to accommodate both home and export requirements.

Hydrofluosilicic—Market position steady with small lot sales predominating. It was stated that the breweries as well as

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

Antimony sulphide, 3c. per lb.
Quicksilver, $1 per flask.

Comparative Price Indexes

(100=August 1, 1914)

General Chemicals

Last week	Prev. week	Last month	Last year
218.1	218.1	222.4	224.8

Acids

Last week	Prev. week	Last month	Last year
121.8	121.8	121.8	123.3

(For Current Prices see Page 9)

the ceramic and chemical industries are limiting purchases to actual wants.

Nanhthenic—Inquiry, while fair, has slowed down compared with August and September. Market's price structure steady with stocks available for prompt shipment.

Oxalic—Supply situation favorable with stocks ample to meet current home and export wants. Buying interest moderate with consumers showing little attention in quantities exceeding actual wants.

Sulphuric—Trade conditions did not change much last week. Continuance of steel strike has restricted demand from that source and has temporarily eased supplies in adjacent areas. Local stocks have met requirements promptly but reports, mostly from the southeast, have noted shortages.

Non-Ferrous Metals

Aluminum—The total domestic output of primary aluminum was 55.777 short tons in July, according to the Bureau of Mines. Production, which gained only in proportion to the longer month, still exceeded shipments, although the latter increased substantially during July, so that inventories of pig aluminum at reduction plants reached 53,809 tons, or about the equivalent of one month's production. Quoted prices of primary pig and ingot remained unchanged throughout July.

While labor difficulties have cutback output at a producing plant, there was no indication of a shortage of the metal at the present time.

Copper—Electrolytic held steady at 17⅝c. per pound delivered. It was stated that mine production has been kept down by a prolonged strike at a large refinery. Buyers have been in the market for current wants but have shown relatively little interest in future shipments.

Despite considerable fluctuation in mine output of copper in several areas in August as compared with July, the United States total was unchanged from that for the earlier month, according to the Bureau of Mines. Among important copper-producing states, Utah's output rose 5 percent, Nevada's 144 percent, and Montana's 1 percent, whereas Arizona's dropped 12 percent, and New Mexico's 10 percent. The average price for electrolytic copper, delivered Connecticut Valley, continued throughout the month at the 17.625 cents a pound established on July 11, or 1.625 cents above the lowest point of the downtrend established June 17.

Production of brass ingot decreased from 56.891 short tons in the first quarter of 1949 to 35,477 tons in the second, according to the Bureau of Mines. Other reductions in output of secondary metal from copper-base scrap were 33,808 tons or 40 percent in brass mill products and 3,319 tons or 7 percent in production of refined copper from scrap. Although quarterly output of brass ingot declined, that for June was 5 percent greater than for May.

Lead—Consumers were moderate buyers at the late decline in prices. It was stated that heavy offers of foreign lead at a price that is lower than that being asked by domestic producers coupled with the fact that a good portion of the Mexican production has to be stored because the demand is not large enough to absorb it, are the chief causes for the recent weakness in the metal.

The average daily rate of lead output from domestic mines in August increased 12 percent over the July level, according to the Bureau of Mines. Owing largely to resumption of mining activities in the Tri-State region following a month-long labor strike and to increased outputs from mines in the Southeastern Missouri area August lead output, in terms of recoverable metal, rose to 33,759 short tons, an average of 1,089 tons per day, compared with 30,030 tons in July produced at an average rate of 969 tons per day.

Mine output of recoverable lead in the combined Western States rose 3 percent in August. Production gained in Colorado where ideal summer weather was favorable to mining in the high mountain areas. An expanded output of zinc-lead ore in the Coeur d'Alene region of Idaho boosted lead production in that state over 3 percent in August. In New Mexico lead production was lower than any month since this series of monthly reports began in 1941. Only one major lead-zinc producer operated during August.

Manganese—Imports of manganese ore into the United States during the second quarter 1949 increased 23 percent over those of the first quarter and were slightly above the 1948 average, according to the Bureau of Mines. Imports from the U.S.S.R. were small; only 2,016 short tons, all battery-grade ore, were obtained from that source. Total receipts of all types of ore during the second quarter 1949 were 335,865 short tons, compared with 273,666 tons in the first quarter, and 272,975 tons for the second period of 1948. India, Union of South Africa Gold Coast, and Brazil were the principal sources, shipping 30, 28, 20 and 10 percent respectively. The remaining 12 percent was divided among Belgian Congo, Chile, Cuba, France, French Morocco, Mexico, the Philippine Republic and the U.S.S.R.

A quota of 100,000 long tons of manganese ore has been allocated by the Government of India for exportation to the United States in the fourth quarter of 1949. This quota will be distributed among Indian mine owners and previous exporters of this commodity, each of whom will be permitted to export a specified amount. Qualified persons may apply to the Chief Controller of Exports in New Delhi.

Quicksilver—Priced lower with buyers looking for inducements to operate. Activity was restricted to small lots with sellers naming $73.00 to $75.00 per flask. On large lots, 100 flasks or over, $72 was named with a possibility of shading this price on a firm offer.

San Francisco.—The market is reportedly dull here with metal quoted at $75 per flask. Stocks continue limited.

Silver—Supply and demand remained in balance and prices followed an even course throughout the week. Silver bullion was listed at 73¼c. per ounce at New York.

Silver Bullion Price Range

	Per ounce— New York	London
High	Sept. 7, 1949—73¼c.	Sept. 20, 1949—64d.
Low	Jan. 1, 1949—70c.	Jan. 1, 1949—42½d.

Mine output of silver in August of 2,683,813 ounces continued virtually at the July level, according to the Bureau of Mines. This stability for the country was despite varied changes in important silver-producing areas. Among larger contributors Colorado's output rose 16 percent, Nevada's 8 percent, and Arizona's 4 percent, whereas Montana's dropped 4 percent, Idaho's 3 percent, and Utah's 1 percent. Colorado's greater output was due in large part to summer weather conditions that favored mining in the high mountains, as well as to moderate gains at some properties that are year-around producers. Nevada's rise is not attributable to only a few properties. The gain in Arizona, on the other hand, resulted mainly from increased output of copper ore and zinc-copper ore at a large copper mine.

Zinc—Continuance of the steel and coal strikes has checked purchases by galvanizers and left the market for prime western relatively quiet. Brass mills have been in the market for special high grade material and have taken some at 10¼c. per pound delivered.

The average daily rate of zinc production from domestic mines increased 11 percent in August, according to the Bureau of Mines. August zinc output, in terms of recoverable metal, was 44,473 short tons, an average of 1,435 tons per day, compared with 40,064 tons in July produced at an average rate of 1,292 tons per day. Zinc production in states East of the Mississippi River gained 7 percent over July owing largely to resumption of operations following a vacation shutdown at mines in Tennessee.

In Arkansas, Kansas, Missouri and Oklahoma the combined zinc output was nearly three times greater than the July production. Zinc production in the combined western states in August was virtually unchanged from the July output, lowest since December, 1946. Production gains of 18 percent in Colorado where ideal Summer weather was favorable to mining in the high mountain areas, and in Arizona, Idaho, Utah and Washington were largely offset by a sharp drop in New Mexico output.

Monsanto Shifts Conwell

Monsanto Chemical Company, St. Louis, Mo., has transferred Kenneth Conwell from the Chicago office of its organic chemicals division to the New York office, effective December 1. He succeeds James R. Harrington, who was recently appointed assistant branch manager of the Cleveland office of the phosphate division. Donald E. Marriner will replace Mr. Conwell in Chicago.

Trade Briefs

Equipto Division of Aurora Equipment Company, Aurora, Ill., has developed a new style, extra strength, easy to assemble line of iron-grip steel shelving.

Pennsylvania Salt Manufacturing Company, Philadelphia, has appointed Joseph T. Gormally assistant to the personnel manager.

American Can Company has purchased a forty-three acre tract in Baltimore as the site for a plant to produce paper milk containers.

Arthur H. Bunker, president of the Climax Molybdenum Company, New York, has been elected as a director of the Lehman Corporation, a financial house.

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Lime Production Hit New Record in 1948

Production of open-market lime increased to a record total of 7,263,976 tons in 1948, according to figures submitted by producers to the Bureau of Mines. This output was 7 percent above the previous high of 6,778,979 tons set in 1947. Production of lime for each of the major uses except agricultural advanced over the 1947 tonnages. Quicklime comprised 75 percent of the total sales and hydrated 25 percent. The output of quicklime increased somewhat more percentage wise than did hydrated—8 and 4 percent, respectively. Costs continued to rise and the average value per short ton for quicklime increased from $9.04 in 1947 to $9.96 in 1948, and for hydrated from $10.50 to $11.50. There was a small increase in the total number of active open-market lime plants in 1948 —181 as compared with 179 in 1947.

Statistics on quick and hydrated lime sold by producers in the United States during 1948, as compared with 1947, are as follows, in short tons:—

	1948	1947
Agricultural	323,300	340,363
Building—		
Finishing	564,163	467,527
Mason's	443,467	389,515
Other	132,888	151,169
Total	1,140,518	1,008,211
Chemical and industrial—		
Carbide and cyanamid	569,643	354,104
Glassworks	235,866	244,043
Insecticides and disinfectants	92,037	97,723
Metallurgical—		
Steel flux	1,131,098	1,130,613
Ore concentration	208,233	251,663
Other	51,424	48,269
Paper mills	697,584	645,665
Sewage	101,917	84,870
Tanneries	88,329	89,029
Water purification	475,287	454,339
Undistributed*	365,171	351,431
Unspecified	238,514	283,453
Total	4,255,403	4,035,202
Dead-burned dolomite	1,544,755	1,395,203
Total lime†	7,263,976	6,778,979
Hydrated lime included in above distribution	1,822,663	1,757,823

* Includes liquid and powder bleach, sand-lime and slag brick, silica brick, chromates and bichromates, coke and gas, food products, magnesia, paints, petroleum, sugar, and miscellaneous industrial uses.

† Includes lime used by producers (captive tonnage) as follows—1947, 392,223 tons, valued at $2,821,404; 1948, 362,368 tons, $2,843,972.

Jeffers Advanced by ECA

Appointment of Charles W. Jeffers as chief of the Industry Division of the Economic Cooperation Administration has been announced by Paul G. Hoffman, ECA administrator. Mr. Jeffers succeeds Samuel W. Anderson of New York, who resigned several weeks ago. He has been chief of the coal section of the Industry Division for ECA in Europe since last December, and at the same time has been serving as consultant to the executive secretary of the Economic Commission for Europe.

Hooker Promotes Miller

Harris C. Miller has been promoted to the sales staff of the Hooker Electrochemical Company, Niagara Falls, N. Y. He is assigned to the New York City sales area with headquarters at 60 East Forty-second street. Mr. Miller has been associated with Hooker since 1941 in various capacities, including process study engineer and on special plant engineering and production assignments.

Bids Wanted

Absorbent, oil and grease on floors, 1,400 pounds, Army Ordnance Department (Springfield 1, Mass.) invitation 22, November 10.

Adhesive, water-resistant, 40,000 gallons, Quartermaster Purchasing Office (New York 3) invitation 234, November 14; 8,965 gallons, Army Quartermaster (General Depot, Schenectady, N. Y.) invitation 25, October 28.

Aluminum sulphate, powdered, 60,000 pounds, Army Ordnance Department (Rock Island, Ill.) invitation 59, October 31.

Calcium chloride, hydrated, 240,000 pounds, U.S. Air Force (Wright-Patterson Base, Dayton, Ohio) invitation 096-147, November 4.

Calcium hypochlorite, 120,000 pounds, Quartermaster Purchasing Office (New York 3) invitation 226, November 10.

Carbon remover, 16,150 gallons, Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 103, November 7.

Carbon tetrachloride, 2,808 pounds, Veterans Administration (Washington 25) invitation A-28, November 2.

Cellulose acetate butyrate, strippable film, 25,000 pounds, Army Quartermaster (General Depot, Columbus 15, Ohio) invitation 102, November 2.

Coaltar pitch, 210,000 pounds, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 9015, November 28.

Cube powder, 2,600 pounds, Department of Agriculture (Washington 25) invitation 346-50, November 1.

Cutting oil, sulphurized, 4,900 gallons, Army Ordnance Department (Watervliet, N. Y.) invitation 29, November 2; 360 gallons, Army Ordnance (Springfield 1, Mass.) invitation 23, November 14.

DDT, 70,000 pounds, New York State Division of Standards & Purchase (Albany 1) invitation 1795, October 28.

Dextrose, 12,120 pounds, Veterans Administration (Washington 25) invitation A-38, November 2.

Drugs, including thyroid tablets; triasyn II tablets; zinc oxide paste, 1,104 pounds; and tar compound ointment, 1,440 pounds, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 132, October 28; posterior pituitary injections, pyridoxine hydrochloride solution, tryparsamide ampuls; invitation 134, October 31; chlorohydroxy-quinoline ointment, cholesterol, liver injection, menadione sodium bisulphite injection, Veterans Administration (Washington 25) invitation A-29, November 3.

Ethyl alcohol, 37,800 gallons, Veterans Administration (Washington 25) invitation A-28, November 2.

Formaldehyde solution, 2,838 gallons, Veterans Administration (Washington 25) invitation A-28, November 2.

Glue, animal, flake or ground, 750 pounds, casein type, 252 pounds; liquid, 1,700 one-ounce tubes, Bureau of Federal Supply (Washington 25) invitation 5G-81774-R, October 27.

Glycerin, 50,000 pounds, Army Ordnance Department (Picatinny Arsenal, Dover, N. J.) invitation 99, November 3.

Hydrogen peroxide solution, 59,400 pounds, Veterans Administration (Washington 25) invitation A-28, November 2.

Ink, litho offset, 1,050 pounds, Army Engineers Corps (San Francisco, Calif.) invitation ENG-52, October 27; marking, 176 gallons, Navy Purchasing Office (New York 3) invitation 5735, November 17.

Insulating compound, silicone jelly, Army Signal Corps (Philadelphia 45) invitation 403, November 21.

Laboratory supplies, including urea, 1,920 one-ounce bottles; desiccated veal, 144 pounds; violet red bile gear, 144 pounds; benzalkonium chloride solution, 11,520 four-ounce bottles, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 135, October 27.

Lacquer, pyroxylin, approx. 16,592 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 8981, November 28; glyptal, 400 gallons, invitation 9168, November 25.

Lubricating oil, 2,600 pounds, Purchasing Officer, Panama Canal (Washington 25) invitation I-29094, October 31.

Merthiolate tincture, 1,440 gallons, Veterans Administration (Washington 25) invitation A-28, November 2.

Mixed acid, 200,000 pounds, Army Ordnance Department (Picatinny Arsenal, Dover, N. J.) invitation 101, October 31.

Nitric acid, 60 percent, 60,000 pounds, Army Ordnance Department (Picatinny Arsenal, Dover, N. J.) nvitation 101, October 31.

Paint, enamel, 300 gallons, Army Engineers Corps (Mobile, Ala.) invitation ENG-18, October 25; 1,893 gallons, invitation ENG-19, October 25; 16,375 gallons, Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 101, November 14; 45,000 gallons, invitation 102, November 14; 1,124 gallons, Army Signal Corps (Philadelphia 45) invitation 411, November 9; **various,** approx. 950 gallons, U. S. Air Force (Maxwell Base, Ala.) invitation 13, October 26; 2,400 gallons, U.S.A.F. (Randolph Field, Texas) invitation 127-9, October 27; 1,000 pounds, and approx. 400 gallons, Army Quartermaster (Fort Devens, Mass.) invitation ENG-11, October 28.

Pesticides, antu, 80 pounds, cryolite, 200 pounds; 2,4-D, 400 pounds; lead arsenate, 156 pounds; pyrethrum concentrate, 1,100 gallons; pentachlorophenol, 700 pounds; methyl salicylate, 285 pounds; mildew repellent, 85 gallons; Army Engineers Corps (San Francisco, Calif.) invitation ENG-50, November 1.

Propane gas, 50,000 gallons, Army Ordnance Department (Detroit Arsenal, Center Line, Mich.) invitation DA-20-089-ORD-50-089-68, October 31.

Protective finish, 27,675 pounds, Army Ordnance Department (Springfield 1, Mass.) invitation 21, November 10.

Salt, 45,000 lbs., Veterans Administration (Washington 25) invitation 94-S, October 27.

Scouring powder, 45,384 lbs., Bureau of Federal Supply (Washington 25) invitation 2-W-82058-R, October 28.

Soap, chip 12,000 lbs.; grit, 4,000 ten-ounce bars; laundry, 30,000 twelve-ounce cakes, Purchasing Officer, Panama Canal (Washington 25) schedule 9409, October 26; hand grit 35,479 lbs.; grit 12,968¾ lbs.; general cleaning paste, 46,900 lbs., Bureau of Federal Supply (Washington 25) invitation 3-W-82005-R, October 31; powder, 220,520 lbs., Bureau of Federal Supply (Washington 25) invitation 2-W-82058-R, October 28.

Sodium phosphate, monobasic, 30,000 lbs., Navy Purchasing Office (New York 3) invitation 5734, November 2.

Sulphuric acid, storage battery, 1,000 gallons, Army Ordnance Department (Rock Island, Ill.) invitation 59, October 31; approx. 66%, 500,000 lbs., Army Ordnance (Picatinny Arsenal, Dover, N. J.) invitation 101, October 31.

Wax, automobile, 1,000 lbs., Post Office Department (Washington 25) invitation 1564, November 7.

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MCA Revises Data On Warning Labels

The Manufacturing Chemists Association has published a rewritten and revised edition of its manual "Warning Labels." Originally published in 1945, the manual has been broadened in scope by the addition of new information and has been rearranged into convenient loose leaf size.

Intended as a guide for the preparation of warning labels for hazardous chemicals, the manual is divided into three parts as follows:—General principles involved in the design and preparation of warning labels for hazardous chemicals; 180 illustrative warning labels for industrial chemicals, and fifty-eight illustrative warning labels for economic poisons.

Included are principles for labeling small commercial packages and products intended for investigational use; container handling and storage instructions; definitions of pertinent terms, including a quantitative definition of the term "poison," related to exposure by contact, inhalation or oral instake; and a table outlining statements of hazard, precautionary measures and instructions in case of contact or exposure, based on the class of hazard encountered.

Principles contained in the manual have served as a basis for labeling requirements issued by several states and territories. The manual is intended to facilitate an effective, uniform pattern of chemical labeling throughout the nation, and to protect the ultimate consumer in the handling and use of chemicals.

Copies may be obtained from the Manufacturing Chemists' Association, 246 Woodward building, Washington 5, D. C., at $1.00 each. Remittances should accompany orders.

Stolk on Amer. Can Board

W. C. Stolk, recently elected executive vice-president of the American Can Company, New York, has been named a director, according to D. W. Figgis chairman of the board. Mr. Stolk succeeds James B. Taylor, a member of the board for twenty-seven years, who has retired because of ill health.

Food Machinery Names Twist Peerless Pump Div. Manager

Food Machinery & Chemical Corporation, San Jose, Calif., has appointed Gerald F. Twist manager of its Peerless Pump Division, with headquarters in Los Angeles. Mr. Twist succeeds Francis F. Fairman, jr., who has resumed his former association with the General Electric Company.

Chemische Industrie Revived

Publication of the once well-known German chemical journal, *Chemische Industrie*, has been resumed after a lapse of a number of years. The publisher is Verlag Handelsblatt G.m.b.H., Duseldorf. Among the contents of the first revived number are an editorial article, "Surmounting the Crisis," a commentary on the chemical economy of Germany, the beginning of a discussion on "Enterprise in Retreat," a variety of statistical data, and articles on "The Chemical Industry and the Marshall Plan" and "Social Organization in the Chemical Industry."

Folkers to Give Howe Lecture

Dr. Karl A. Folkers, director of organic and biochemical research of Merck & Co., has been selected to give the fifth annual Harrison Howe lecture before the Rochester section of the American Chemical Society on November 7. The title of the lecture will be "Research on Vitamin B 12."

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Superphosphate, Ammonium Sulphate Contracts Awarded

The Department of the Army has listed contracts awarded to private concerns in amounts of $100,000 or more since October 11, 1949. Among the contracts listed were three for ammonium sulphate and three for ammoniated superphosphate, all awarded by the field director of ammunition plants at Joliet, Ill. Listed as having contracted to supply ammonium phosphate were Phillips Chemical Company, 40,000 tons for $1,729,000; Mathieson Chemical Corporation, 10,000 tons for $191,100, and Best Fertilizers Company, 10,000 tons for $197,500. Contracting to supply ammoniated superphosphate were Mathieson Chemical Corporation, 16,400 tons for $282,080, and H. J. Baker & Bro., 11,200 tons for $187,600 and 22,400 tons for $402,976.

Victor Advances Paul

Victor Chemical Works, Chicago, has appointed Roy E. Paul superintendent of its Tarpon Springs, Fla., plant. He joined the company in 1929 as a chemist at its Nashville, Tenn., plant, and in 1938 was named manager of the phosphorus department at Mount Pleasant, Tenn. Later he was appointed assistant production superintendent.

Monsanto Describes Herbicides

An integrated series of seven booklets describing the methods and advantages of controlling weeds with chemical sprays in agriculture, industry and municipalities is available from Monsanto Chemical Company, St. Louis, Mo.

The booklets include instructions for formulating the company's basic herbicidal chemicals, both contact and translocated, and the proper compounds and rates of application for various uses. Specific booklets on chemical weed control on right of ways, and in small grains, orchards and vineyards are included in the series.

Antara Describes Detergents

Antara Products, a division of General Aniline & Film Corporation, New York, has published a folder entitled "Synthetic Detergents—Their History and Applications." Designed to acquaint laymen buyers with simple facts about these materials, the publication defines both detergents and synthetic detergents, and explains the need for the latter in various fields.

Trade Briefs

Aikman (London) Ltd. has added D. M. Sandral to its board of directors. Mr. Sandral was formerly fertilizer export sales manager of the Billingham division of Imperial Chemical Industries.

E. I. du Pont de Nemours & Co.'s nylon plant at Martinsville, Va., has established a new world's safety record, and has been voted a special award by the National Safety Council.

Powell Names Representative

John Powell & Co., insecticide manufacturer, New York, has appointed Nassau Chemicals, Inc., Pacific Coast representative. The Nassau organization, which has offices at 420 Market street, San Francisco, will maintain warehouse stocks of Powell insecticides in San Francisco.

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Agricultural Chemicals

Bone meal prices including all grades were reduced last week. There was more of the feeding grade available than the fertilizer type but demand was not aggressive for either variety. Slow inquiry for dried blood and tankage resulted in lower prices here and in Chicago. Menhaden meal and scrap were lower under a relaxation of demand from the feed trade. In the pesticide market, toxaphene prices were lowered with stocks being built up to meet the Spring demand. Supplies of benzene hexachloride and DDT have been restored after the heavy Summer drain. Trade sentiment favors lower prices for lead arsenate for the new season.

Coke-oven ammonium sulphate shipments have continued restricted by the steel strike although trade reports indicate there is no shortage of converters' material. Some pickup in the movement of superphosphate has taken place this month. Farmers, however, are not buying mixed fertilizer ahead and in some instances acidulators have been forced to suspend operations for want of storage space. In one producing quarter it was stated that storage space this season is the keystone to the superphosphate situation. Potash shipments have kept contract requirements leveled off.

Fertilizer trade activity between United States and other countries was at a lower level during July than it was during the same month of 1948. Department of Commerce figures summarized by the National Fertilizer Association reveal that July exports of fertilizers and fertilizer materials totaled 244,000 short tons valued at $3,700,000, or about 8 percent less by weight and 48 percent lower in value than a year earlier. Chiefly responsible for the drop were reduced shipments of nitrogenous materials, although substantially more ammonium sulphate was exported. Shipments of phosphate materials other than phosphate rock also declined, while a slight rise in potash materials exports was reported.

Market Trends

Prices Advanced

None

Prices Reduced

Bone meal, $5 per ton.
Dried blood, $1 per unit of ammonia.
Fish meal, menhaden, $5 per ton.
Tankage, $1 per unit of ammonia.
Toxaphene, 4c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
81.6	81.6	81.6	81.6

(For Current Prices see Page 9)

Nitrogenates

Ammonium Sulphate — Cokeoven sulphate shipments continued restricted by steel strike, but, according to trade reports, there is no shortage of converters' material. Difficulty in obtaining export licenses has held up export sales.

Bone Meal—Prices were reduced $5 per ton on all grades of this material. The list price is $65 per ton at producing plant here and in Chicago. More feeding grade stock available than fertilizer grade. Demand spotty.

Castor Pomace — Offerings early last week at $24 per ton, in bags, carlots, were quickly purchased. No stocks offered at the close.

Dried Blood—Priced lower, with demand slow. Stocks available at $9.25 per unit of ammonia here and at the same figure in Chicago.

Fish Meal—Priced lower under a slowing down of demand from the feed trade. Menhaden meal offered at $175 per ton for 60 percent. Scrap $165 both Baltimore area.

Sodium Nitrate—Market situation remained seasonally quiet, with no additional change in prices and no shortage of stocks.

Tankage—Buying interest slowed down from the feed trade, and prices dropped sharply. Stocks were available at $9 per unit of ammonia at the close of the week.

Phosphates

Phosphate Rock — Shipments fair, but not of unusual volume owing to limited storage space at acidulating plants. Production meeting requirements and supply conditions comfortable in most instances. No new price changes could be noted.

Superphosphate — Domestic production of normal superphosphate during August, 1949, amounted to approximately 742,000 short tons, according to the Bureau of the Census. This represents a 5 percent increase over production in July, 1949, and a 1 percent increase over the August, 1948, figure. Although shipments of normal superphosphate were 11 percent larger than the previous month's, they totaled 29 percent less than the quantity shipped during the same month a year ago. Stocks on hand increased during the month by 9 percent to 1,0414,357 tons, but were still 17 percent below the amounts on hand at the end of August, 1948.

Production of concentrated superphosphate continued its gain: the August, 1949, figure of 52,000 short tons being 9 percent greater than that for the previous month and 23 percent above the August, 1948, quantity. Shipments were up 64 percent compared to the previous month and 35 percent above the figure for the corresponding period of last year. Stocks on hand increased about 1 percent to 92,271 tons for the month.

Production of wet-based goods in August was 4,813 tons, 35 percent higher than that for July, 1949, and 4 percent more than that for August, 1948. Even though more than twice as much was shipped in August as during the previous month, this amount was 59 percent less than the figure for a year ago. Stocks of wet-based goods increased 58 percent to 10,332 tons during the month.

Potashes

Maintenance of regular contract shipments is leveling off demand for muriate. High producing costs have kept the market position firm with output sustained at a higher level than a year ago. According to trade estimates, production will average 10 percent higher this season.

Cottonseed Hull Ash—Tobacco planters have not shown much interest in this market to date. Stocks are available at $1.75 per unit for 32-36 percent potash in bags, carlots, delivered.

Los Angeles Fertilizer Market

Los Angeles.—Trading in organic materials has been dull with little buying interest at present prices; the only exception being tankage which shows slight improvement due to prevailing prices of other organics. The next few weeks should show some improvement in this situation with sardine fishing getting underway at San Pedro and settlement last week of the strike that has curtailed bone meal production for several months. Activity and prices remain relatively unchanged on inorganic material.

Ruling prices were:—Ammonia nitrate, $74.38 per ton for Canadian material, f.o.b. Los Angeles. Ammonia phosphate, $65.15 per ton for 16 20 grade, f.o.b. Los Angeles, $89.65 per ton for 11/48 grade, f.o.b. Los Angeles. Ammonia sulphate, $55 per ton in bags f.o.b. this city. Canadian material $55 per ton bagged f.o.b. Los Angeles. $2.50 less for bulk. blood meal, $7.75 to $8 per unit of ammonia at source. Bone meal, no offerings as yet on Los Angeles market. Fish meal, $150 per ton for 60 percent protein tuna, f.o.b. Los Angeles. $167.50 per ton for 67 percent sardine, f.o.b. San Francisco. $162.50 per ton for 65 percent sardine, f.o.b. Los Angeles. All prices nominal. Nitrate of soda, $56 per ton in 100-pound bags, f.o.b. Los Angeles Harbor. $51 per ton bulk. Potash muriate, 43½c. per unit, bulk, f.o.b. Trona basis. Potash sulphate, 95 to 98 percent K_2SO_4, 79c. per unit, f.o.b. Trona. Superphosphate, $21.20 per ton bulk, f.o.b. Los Angeles area. $2.50 extra for bags. Tankage, dry rendered, ground, 50 percent protein, $6.50 per unit of ammonia at production plant, plus 10c. per unit of b.p.l.

Pesticides

Market situation seasonally quiet for domestic use with export inquiries active for benzene hexachloride and DDT both of which are available for prompt shipment. Sentiment in the trade favors reduced quotations for lead arsenate owing to lower prices prevailing both for the metal and white arsenic. Toxaphene prices have been reduced with inventories being built up to meet the Spring demand.

Toxaphene—Priced lower at 20c. per pound for 200 pound drums in carlots and at the same figure for truckloads. Quantities ranging from 2,000 pounds to truckloads are listed at 23c. per pound and for smaller lots 26c. all prices are f.o.b. the works.

Sulphur

Mine shipments of native sulphur in July were placed at 419,381 long tons by the Bureau of Mines. June shipments were 375,118 long tons and 403,916 in July, 1948. Apparent sales in July calculated from production and change in stocks were 414,278 long tons, against 398,764 in June and 387,198 in July last year.

For Late Market Developments, See Page 4

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Petroleum Derivatives

An advance of 15 cents per barrel on No. 6 fuel oil was effected along the Eastern Seaboard and Gulf Coast last week. The action, attributed to increasing demand and declining inventories, was expected to bring out additional supplies. Prices on other petroleum derivatives, meanwhile, held firm.

Call for petroleum aromatics continued heavy during the period, both from regular accounts and from consumers unable to get coaltar material. Petroleum producers reported no difficulty in meeting the demands of their long-standing customers. Although some sellers were in a position to take on limited amounts of new business, the trade insisted that supplies of petroleum toluol and xylol were not plentiful enough to accommodate all users. Sellers, therefore, continued their policy of taking care of old accounts first, new customers last. Apart from one marketer who invited bids from all comers, higher boilers and blends were similarly situated.

The steel strike notwithstanding, paint production continued to hum, and demand for all aliphatics moved up. Solvent makers, while noting the rise in business, pointed out that there was still room for improvement. Stocks were excellent. LPG's continued to narrow. Butane was available only on spot. Propane was in a slightly better position.

Solvents and Diluents

Aromatic Solvents—Demand for petroleum toluol and xylol, both from new and old customers alike, continued excellent in all areas last week. Producers reported that they were having no difficulty in meeting all requirements of long-standing accounts. Some sellers, in fact, with limited amounts of material to spare, were said to be taking on a little of the new business. However, the trade insisted that petroleum supplies were not large enough to accommodate all consumers, and that many former users of coaltar aromatics, unable to get stocks from their customary source because of the steel strike, would have to go without. Quotationally, pure petroleum aromatics remained steady, and no changes were contemplated within the immediate future.

Call for higher boiling range aromatics and aliphatic-aromatic blends was similarly heavy during the period. Apart from one seller who invited bids from all comers, producers continued their policy of taking care of old accounts first, new business last. With the exception of the above-mentioned maker, there was little material to spare for former coaltar customers. Pricewise, there was no change in the situation, and none was expected.

Cleaners' Naphtha—Consumer inquiry continued to move up during the past seven-day period. Supplies were plentiful throughout the market. There were no changes in prices. Philadelphia marketers, ruled by a local situation, quoted 13c. per gallon for tankcars. Elsewhere in the East, the prevailing quotation for tanks was 1c. higher, or 14c. per gallon. Group 3 marketers held at 10⅞c. per gallon, tankcars.

Lacquer Diluent—The steel strike notwithstanding, lacquer manufacturers continued to call for increasing quantities of this aliphatic material during the week. While noting the rise in business, producers of this naphtha emphasized that there was still room for improvement. Stocks were adequate in all areas. Quotations were maintained at previous levels. East Coast marketers named 16c. per gallon for tankcars, while group 3 makers ranged from 11⅛c. to 12⅛c. per gallon, tanks.

Mineral Spirits—Availability continued good everywhere in last week's market. Although it was taken for granted that a prolonged steel tieup would ultimately curtail the production of protective coatings, business continued to hum during the period. In fact, paint makers were reported to be stepping up their demand for solvents. Meanwhile, listings held firm all along the line. In Philadelphia, where sellers were still under local influences, the tankcar price was 13c. per gallon. Elsewhere on the East coast, the material was named at 14c. per gallon for tanks. In group 3, producers quoted 9⅞c. to 10⅜c. per gallon, tankcars.

Rubber Solvents—The price structure remained stable during the past seven days. East Coast makers quoted 15c. per gallon, tanks, while group 3 sellers named 10⅜c. to 11⅜c. per gallon, tankcars. Demand, while not on the rise, was reported to be holding its own. Supply levels were plentiful all around.

Stoddard Solvent—Paint makers reported no adverse effect on their operations last week, despite continuance of the steel walkout. Their demands for this aliphatic, in fact, were up over previous levels. Solvent producers, however, pointed out that business, though good, was still subject to improvement. There was no dearth of supplies anywhere in the market. Prices were steady, holding at 13c. per gallon in Philadelphia, 14c. per gallon elsewhere in the East and at 10⅜c. to 10⅞c. per gallon in group 3. All above listings are for tankcars.

V. M. & P. Naphtha—Although negotiations in the steel dispute continued deadlocked during the week, the paint trade continued to step up its demands for this aliphatic. It was pointed out that ultimately a decline would set in if the steel strike continued for any long period of time, but as of last week no adverse effect was noted. Stocks were adequate. Prices were steady, at 15c. per gallon, East Coast, and at 10⅞c. to 11⅜c. per gallon, group 3. These listings are for tankcar quantities.

Lighter Fractions

Stocks of LPG's continued to narrow last week. Butane was available only on spot, and there was not much of that around. Propane was a little better fixed. Prices were maintained at 3½c. and 2½c. per gallon, tanks, group 3, for butane and propane, respectively. Call for other lighter fractions ranged from fair to moderate.

Miscellaneous Materials

Crude Oil—Postings were firm everywhere in last week's market. The American Petroleum Institute reported daily average crude-oil production for the week ended October 8 at 4,956,000 barrels, or 65,000 barrels above the total of the preceding week. Daily average crude runs to stills of 5,355,000 barrels were 158,000 barrels below the level of the preceding week. Runs of foreign crude amounted to 454,000 barrels daily, compared with 437,000 barrels in the preceding week.

Fuel Oil—Prices on No. 6 oil were advanced 15c. per barrel along the East Coast and Gulf area last week. The boost, according to a statement by one company, was attributed to increasing demand and declining stocks. The move, it said, was taken to bring out additional supplies.

Los Angeles Petroleum Market

The market for solvents and diluents here has settled down to normal for the season, with prices, supply and demand firm and unchanged from past weeks. Cleaning solvent quoted at 15½c. to 19½c. per gallon, tankwagon, ex-tax, f.o.b. Los Angeles basin area; lacquer diluent named at 16½c. to 20½c. per gallon, same basis, and stoddard solvent, 15.7c. to 19½c. per gallon, same basis.

Movements have been good in lighter fractions this week. It is expected that supplies of both propane and butane will be ample this season as more material will be diverted to this area from production fields in New Mexico. Current quotations are 7.3c. per gallon, tankcar, f.o.b. Los Angeles basin area for both LPG's.

Call for high-melting point waxes has been spotty, but total movements are average for the season. Prices are as follows:—140-147 ASTM, carload, loose slabs, f.o.b. shipper's refinery, San Francisco, 6.95c. per pound; 146-148 ASTM, same basis, 7.15c. per pound, and 157-162 ASTM, same basis, 7.6c. per pound. Tankcar prices quoted at 6.6c., 6.8c. and 7.25c. per pound, respectively.

Market Trends

Prices Advanced

Fuel oil, No. 6, East and Gulf Coasts, 15c. per bbl.

Prices Reduced

None

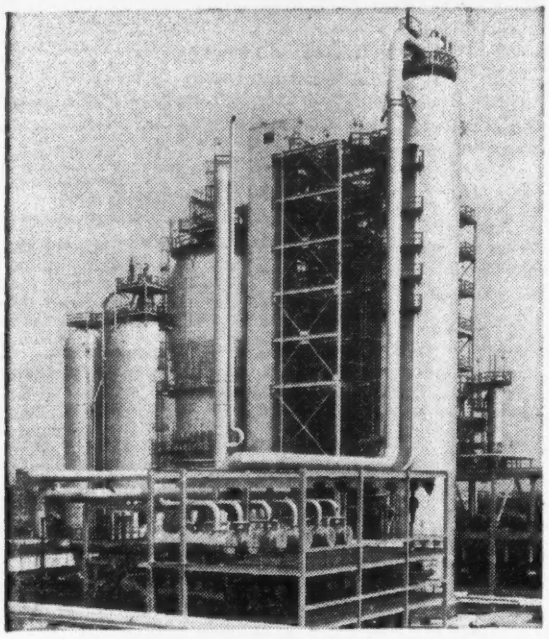
(For Current Prices see Page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended October 8 totaled 256,085,000 barrels, according to the Bureau of Mines. Compared with the revised total of 258,300,000 barrels for the preceding week, this represents a decrease of 2,215,000 barrels, comprising a decrease of 2,974,000 barrels in stocks of domestic crude and an increase of 759,000 barrels in stocks of foreign crude.

For Late Market Developments; See Page 4

Esso Standard Dedicates Catalyst Cracking Unit



A close-up view of the largest catalyst cracking unit in the world which was dedicated on October 17 at Esso Standard Oil Company's Bayway refinery in Linden, N. J. It will produce almost 1,000,000 gallons of gasoline and 250,000 gallons of heating oil daily. Dedication of the new unit marked the completion of a two-year major expansion of the refinery which is the largest petroleum plant serving the eastern seaboard. Operating at designed capacity, the unit will process 41,000 barrels of crude oil daily. The catalyst holding capacity of the unit is between 900 and 1,000 tons and catalyst will circulate through it at the rate of fifty-six tons a minute.

Shell Shifts Marketing Staff as Sinclair Retires

G. L. Kluck has been appointed manager of the Indianapolis marketing division of the Shell Oil Company, to succeed J. G. Sinclair, who has announced his intention of retiring late this year. Mr. Kluck's former position as division sales manager will be filled by C. A. Jordan, formerly sales manager of the Cleveland marketing division. The Cleveland post will be taken by N. H. Miles, sales manager of the Detroit division, and J. C. Hopkins, district manager in New York, will succeed Mr. Miles at Detroit.

Mr. Kluck joined the Shell organization in 1927, and was named sales supervisor of a New York district ten years later. In 1940 he was appointed sales manager of the New York division, and subsequently served as assistant division manager at St. Louis and Baltimore.

Mr. Sinclair, who has completed twenty-six years of service with the company, was named manager of the Indianapolis division in 1941. Mr. Jordan, a Shell employee since 1925, was transferred from Indianapolis to Cleveland in 1936, and subsequently became sales manager at the latter city.

Mr. Miles, who joined the company in 1929, has been in Detroit since 1948. He had formerly served as district manager in Richmond, Va., and Baltimore, Md., and as acting sales manager of the Baltimore division. Mr. Hopkins joined the company in 1931, and in 1943 was named assistant to the manager of the aviation department in New York. He was promoted to special assistant to the vice-president of marketing in 1947 and was appointed district manager in New York in May of this year.

Du Pont Advances Conklin

E. I. du Pont de Nemours & Co., Wilmington, Del., has appointed David H. Conklin assistant sales manager of its petroleum chemicals division, and has named George L. Tyler to succeed him as west coast district manager for the division. Mr. Conklin will be in charge of promotion activities for the division.

Houghton Reissues Booklet

E. F. Houghton & Co., manufacturer of industrial oils, chemicals, leathers and heat treating materials, Philadelphia, has published a revised and enlarged folder on "Houghto-Solv," the concern's fast-acting fuel oil additive. The booklet, which features many photographs, including enlarged micro-photographs actually showing dispersal of sludge deposits, describes the physical composition of the additive and demonstrates its functions and results. Copies are available upon request from the company at 303 West Lehigh avenue, Philadelphia 33, Pa.

N.J. Standard Names Sherman Producing Head

Roger S. Sherman, who for the past twenty years has been engaged in oil exploration work for Standard Oil Company (New Jersey) and affiliates, has been appointed coordinator of all producing activities, effective November 1st.

Mr. Sherman succeeds John W. Brice, who recently was elected to the board of directors of Standard Oil Company (New Jersey). At the same time it was announced that M. A. Wright, who has headed the eastern hemisphere division of the producing coordination department, will succeed Mr. Sherman as deputy coordinator.

LPGA Names Kreutzer

Arthur G. Kreutzer has been appointed managing director of the Liquefied Petroleum Gas Association, succeeding Howard D. White, executive vice-president, who has resigned, effective October 31. Mr. White will join the newly-organized Perlite Development Corporation, Albuquerque, N. M., as an owner and officer.

Aramco Promotes Snyder

Lester M. Snyder has been appointed vice-president of Arabian American Oil Company to assist in general administration and to effect coordination of domestic and foreign operations. Since 1947 he has been assistant to W. F. Moore, the oil firm's president.

Calif. Standard Elects Beekhuis

The board of directors of the Standard Oil Company of California has elected William H. Beekhuis a vice-president. Mr. Beekhuis has acted as secretary of the company's executive committee for the past six months, and he was formerly assistant comptroller of the company.

Trade Briefs

American Petroleum Institute has appointed W. T. Born, Geophysical Research Corporation, and L. M. Hubby, Texas Company, to its central committee on radio facilities.

R. Rea Jackson, general manager of the refinery of the Socony-Vacuum Oil Company at Paulsboro, N. J., has been appointed as representative of Gloucester County, N. J., on a ten-member committee for coordinating and activating the economic future of the greater Philadelphia-south Jersey area.

Crude oil production in Saudi Arabia during September amounted to 12,366,693 barrels, or an average of 412,223 barrels per calendar day, it was announced by the Arabian American Oil Company. Crude processed at the company's refinery at Ras Tanura amounted to 3,657,442 barrels, or an average of 121,915 barrels per calendar day.

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Coaltar Chemicals

Prices were unchanged in the coaltar chemicals market last week and demand in general continued good while producers waited for a settlement of the strikes.

As the strikes continued, the situation became more difficult and all were hoping for an early peace to bring an end to the production hardships. There was some production available from the few steel plants that were not out on strike and from the gas plants, but this was not much when compared to the material that could be made if the steel industry were running at full blast.

The American Iron and Steel Institute reported that companies having ninety-four percent of the capacity of the industry were scheduled to produce at only 9.3 percent of capacity last week. This was the same as the previous week's figure. It represented 172,000 tons of steel ingots and castings for the entire industry as compared to 1,786,300 tons during the comparable time a year ago.

Benzol, toluol and xylol continued very tight, with xylol the tightest of the lot. There could be no improvement in the supply of these items until the steel strike was over and, since demand was running high, producers were especially eager to see labor peace.

Phthalic anhydride continued short, with the demand high. Nearly all the available naphthalene was being diverted into the manufacture of phthalic, and this meant that there was very little naphthalene available for other uses.

Basic Products

Benzol—Demand for this material was still running at high levels during the past week but the supply was tight and there were no indications that it would be otherwise while the steel strike continued. Producers were doing all they could under the circumstances but they could not satisfy all the demand since the only output was coming from the few steel plants that were not out on strike and from the gas plants. No changes were reported in the price listings during the period under review and there were no indications that there were any in prospect immediately. In some circles it was felt that prices would probably remain unchanged while the strikes were on.

Coaltar—The supply of the re-sale material was reported to be still holding up and was probably good for the balance of the month, but it was reported that after that time, should the strikes persist, sellers would probably be pinched for stocks. There was a fairly good backlog at the time the strikes began and sellers have been drawing on that while hoping for any early settlement of the labor difficulties. Demand was continuing to run at good levels. There were no changes reported in the price structure and there were no indications that any were in prospect for the immediate future. It had been said by some factors in the industry that with the strikes going on this was probably not the time to change prices.

Creosote—The output of this material was still being affected by the steel strike during the past week. Production of the domestic material was naturally not what it was before the strike but there were still good quantities of the item coming in from abroad and this was helping the general supply situation. Added to that was the fact that recently the demand for the product had not been so great as to take all of it off the market, and the backlogs that sellers had then could now be used to take up the slack in production. The strike situation made it a bit difficult to tell what prospects would be for the sale of this material. Before the strikes in both steel and coal began, it was said by some sources that the outlook for the balance of the year was not much better than so-so. Other spokesmen, however, were more optimistic and thought business would not be at too bad levels. They pointed out that railroads and utilities had been showing a bit more interest lately and that general building activities and highway construction should provide pretty good outlets for the sale of this item. Prices, meanwhile were unchanged and there were no indications that there were any revisions in prospect for the immediate future.

Cresol—Since some steel mills were still running and there was the normal activity in gas plants, there was still some of this material being produced during the past week, but the total amount was not what it was before the steel strike began. Sellers were doing the best they could to satisfy as much of the demand as possible, but what with a curtailed production this was naturally an uphill fight. The price structure was reported to be holding at its previously established levels during the period under review and there were no indications that there were any revisions planned for the immediate future.

Cresylic Acid—It was reported during the past week that there were good-sized shipments of this material coming in from abroad and that they were being sold readily to consumers. The availability of the material from abroad was a help to consumers in this country for the domestic supply had naturally been affected by the strikes. There was still some of the material available from gas plants and the steel mills that were not out on strike but this was only a small percentage of what the industry had been turning out before the strikes started. Demand for the item continued to be felt at good levels and sellers were doing what they could to satisfy it but it was naturally a difficult task. Prices were reported to be unchanged during the week and there were no indications that there were any revisions in prospect for the immediate future.

Naphthalene—This material was in a tight position during the past week and was expected to become tighter should the strikes persist much longer. Demand continued to be felt at good levels. Since phthalic anhydride was in a good demand, a large part of the available naphthalene was being diverted into the production of phthalic. Some sources reported that because of this diversion into phthalic anhydride, there was very little of the material to be sold for other uses. The market was being helped a bit by the importation of the item from abroad. Prices during the week continued to hold at their previously established levels and there were no indications that there would be any revisions in the immediate future.

Phenol—The situation in the synthetic material was not encouraging during the period under review. A general tightening of supply was noted as a result of the curtailment of benzol production. At best the situation was called about fair during the week. One seller said it was able to take care of its committments but could not tell what would happen in the future. Another stated that it was now in a position where it could sell only to established customers. It had been said previously that unless the strikes were over within thirty days there would be an extremely difficult situation with regard to the supply. There were no changes reported in the price range and there were no indications that there were any pending for the immediate future.

Pyridin—Pricewise, there was no word during the past week of any revisions in the listings of this material. Demand continued to be felt at good levels but the strikes were having their effect on production. There was some help being offered to the market by imported goods, but still when examined against the amounts normally needed and produced it was seen that the material was still not completely free as to availability.

Solvent Naphtha—The supply of this item was also affected by the strikes but there were still a few steel plants running and that was helping somewhat. Still, they

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
110.1	110.1	110.1	156.4

(*For Current Prices see Page 9*)

Coke By-Products

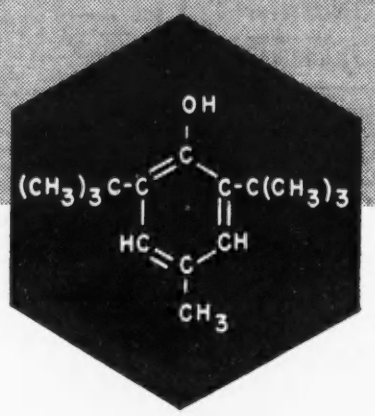
Estimates of by-product cokeoven operations in the week ended October 8 indicate the following output of by-products from that source:—

Ammonia liquid, NH_3	lbs.	891,141
Ammonia sulphate	lbs.	23,075,832
Benzol	gals.	2,907,936
Coaltar	gals.	10,787,506
Creosote oil	gals.	600,348
Naphthalene, crude	lbs.	1,425,826
Phenol	lbs.	168,847
Toluol	gals.	581,587
Xylol	gals.	131,326

For Late Market Developments, See Page 4

DBPC

Di-tert-butyl-para-cresol



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could not keep the production up to the levels that prevailed before the labor difficulties began. The price range was reportedly unchanged during the week and there were no suggestions that any revisions were pending.

Toluol—Demand for this product continued to run high during the past week, as it had even before the strikes began. The strikes were curtailing production considerably and about all the material available was that resulting from operations in the few steel plants that were not out on strike and the gas plants. This was not sufficient to satisfy the market, especially since in recent weeks there had been a considerable upswing to the demand. Sellers were doing all they could to satisfy their customers but with the production situation what it was this was, to say the least, an extremely difficult proposition. The strikes, of course, were hitting the producers at a most unfortunate time, for toluol was just picking up nicely after a slow period of several months when the labor difficulties began and threw a shadow over the brightening picture. Prices held at their previously established levls during the past week and there were no indications that there were any revisions planned for the immediate future.

Xylol—The supply of this item was in a very tight position during the period under review and it was said in some sections of the industry that it was just about impossible to obtain. It had been in a tight position before the strikes began, but with the advent of the labor difficulties it became even tighter. There was some production from the steel plants that were not on strike and some from the gas plants but when examined against the overall demand it was seen that this production was not nearly enough to satisfy the market. Meanwhile, the demand continued strong and showed all signs of continuing that way. The price listings remained unchanged during the week and there were no signs that there were any in prospect for the immediate future.

Intermediates

Alphanaphthol — Supplies of this material were reported to be holding up well at present, but what with the strike conditions, it was difficult to determine how long they would remain sufficient for the demand. There were no changes in the price listing and no indications that any were anticipated for the immediate future.

Alphanaphthylamine — Pricewise, the market for this material was reported to be without change during the past week and there were no suggestions that there were any revisions in prospect at this time. Stocks at the moment were said to be in reasonably good shape but it was difficult to tell for how long they would remain that way because of the strike situation.

Anilin Oil—The demand for this material was reported to be exceeding the supply at present. Stocks, it was reported, were dwindling because of the strikes and it was difficult to tell what the future would be since no one could predict the outcome of the labor situation. Pricewise, there were no changes reported and there were no indications that any were planned for the immediate future.

Anilin Salt—Supplies of this material were reported to be sufficient to meet the demand during the period under review, but the demand was not running to any particularly high levels. There was no change reported in the price.

Anthraquinone—The price of this material was unchanged during the week and it was said that the position of supply and demand was about balanced.

Betanaphthylamine — The demand for this item was not at an especially high level during the past week but the supplies were sufficient to accommodate normal ordering. The item was listed at 80c., a price that has held for some time.

Dinitrochlorobenzene—Pricewise, there were no changes reported in the market for this item during the past week and there were no indications that there would be any immediate revisions. Demand was running at only moderate levels and the supply was generally sufficient to satisfy it.

Metanitroparatoluidin—The supply and demand of this material were reported to be in balance during the past week, a condition that has prevailed for some time past. There were no changes noted in the price range.

Nitrobenzene—Demand at this time was reported by one source to be exceeding the supply, but it was pointed out that this condition was temporary, and after a short time it was expected that the condition would be one of balance. The price of the item remained unchanged during the week.

Phthalic Anhydride—The supply of this

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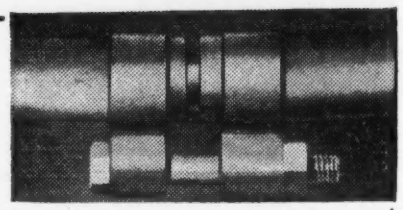

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item continued tight during the past week and the indications were that it would become tighter while the strikes lasted. Nearly all the available naphthalene was going into its production, but producers were still not able to satisfy the market. Some producers were running at full capacity but others were not. When the demand for the product increased just before the strikes began, makers had to step up their production facilities and naturally this took some time. The price of the material held to previous levels during the past week and there were no indications that any revisions were in prospect.

AICE Plans Technical

—Continued from page 4

tion, with papers relating to washing of liquids from conduits and porous media, elutriation of fines from fluidized systems, and separation of gases by fractional permeation through membranes.

A paper on the diffusion effects in catalytic oxidation of SO_2 is also included. Papers on distillation and absorption will discuss characteristics of industrial fractionating tower packing, design calculations in batch distillation, and operation of several types of packed columns. Other miscellaneous topics include thermodynamic calculations on compressor and expander design, spray drying of "Santomerse" resins, and "ultrasonics"—a new chemical engineering tool.

Three Symposia Scheduled

"Industrial Waste Disposal" will be the subject of the first symposium, under the chairmanship of R. D. Hoak, Mellon Institute, Pittsburgh, with sessions Monday afternoon and Tuesday morning of the meeting. The second symposium, on "Atomic Energy" will be guided by J. R. Huffmann, Argonne National Laboratory, Chicago, with papers being presented on Tuesday afternoon. "Vapor-Liquid Equilibria" will constitute the final symposium, to be held on Wednesday afternoon with W. C. Edmister, Carnegie Institute of Technology, Pittsburgh, in charge.

Two panel discussions are also scheduled. A discussion on "Professional Licensing," to be held on the opening day of the meeting, will include problems and special topics dealing with state licensing of engineers. "Corporation Training of Young Engineers" will feature the second panel topic, on Wednesday afternoon. J. M. Weiss, consulting engineer, New York, and Paul D. V. Manning, International Minerals & Chemical Corporation, Chicago, are to be the respective moderators leading each panel session.

U.S.-Colombia Trade

—Continued from page 4

Colombian imports under the trade agreement were the following:—

Cornstarch; hog lard; tanned hides; calfskins; catalogs; feldspar, pulverized talc, cerite, kaolin, tripoli, decayed or refractory; quinine in any form; plasmoquinine and quinoplasmine; medicinal plants and their pure derivatives and medicinal raw materials; biological and opotherapeutic products (glandular); granuels, pellets, tablets, pills and dragrees (pharmaceptical specialties and patent medicines); solutions, emulsions, medicinal syrups and extracts.

Disinfectants and antiseptics in small containers with registered names; unguents or pomades of known formula (pharmaceutical specialties and patent medicines); dentifrice waters or elixirs, aromas, powders and pastes for the teeth; perfumery and cosmetics, not designated; disinfectants, insecticides and fungicides with a base of phenol, formaldehyde, etc., of soap; hide poison, etc.; pine resin, colophony, yellow pitch; turpentine or essence of turpentine and substitutes such as "Leptina"; chemical products applicable to industry, not expressly mentioned; black powder for hunting and powder for mines.

Unprepared chemical colors, now specified in other parts of the tariff; inks for printing and lithographing; other prepared colors, including bronzes, white lead, zinc white, red oxide of iron with oil; varnishes, enamels not mentioned in other parts of the tariff; paraffin wax for industrial uses; oils and greases not mentioned in other parts of the tariff, worked, lubricating pastes for machines, vehicles, etc.

Soap in cream for shaving when imported in original flexible tubes; products for cleaning, stain removing, impregnating, shoe polishing, etc., with a base of turpentine oil, benzine, etc., such as shoe polishes, creams and greases for the shoes, blacking for leather pastes, pomades and powders for cleaning metals, etc., prepared waxes for polishing floors.

Little Publishes Bulletin On Compression Distillation

Arthur D. Little, Inc., chemist and engineer, Cambridge, Mass., has published a booklet on the compression distillation process. It describes the process and how it works, details its distinctive features, and makes recommendations for its use in various industries. Copies of the brochure may be obtained from the company.

Fraser Heads Welding Society

O. B. J. Fraser, assistant manager of the development and research division of the International Nickel Company, New York, was elected president of the American Welding Society at its recent annual meeting in Cleveland. He had previously served as national treasurer, second vice-president and first vice-president of the society.

Tenn. Eastman Transfers Williams

Tennessee Eastman Corporation has added E. Murray Williams to the staff of its chemical sales office in Chicago. Mr. Williams, who has been with the corporation's chemical sales development division in Kingsport, Tenn., joins Robert Cannon in representing Tennessee Eastman in the sale of their industrial chemicals in the Chicago area.

Troy Engine Expands Operations

The Troy Engine & Machine Company, Troy, New York, has acquired the colloidal mill division of the C. O. Bartlett & Snow Company, Cleveland, and the roller mill and mixer division of the Brasington Corporation, Cincinnati. Malcolm B. Nicholls, formerly of the Brasington Corporation, has joined the sales and engineering department of Troy Engine & Machine Company, and M. P. Hofman, formerly with C. O. Bartlett & Snow Company, has become chemical engineer for sales and product development with the Troy organization.

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Photographic — Ingredient of fixing baths.

Textile—Sodium hyposulphite substitute in preparation of chromium color baths for fabric printing.

Diglycolic Acid

Chemical—Suggested as intermediate useful in making plasticizers.

Resins—Suggested as useful intermediate in making synthetic resins.

Glycerolmannitan Laurate

Pesticide—Spreading, wetting, and penetrating agent in contact insecticidal formulations, hormone sprays, insecticidal stomach poisons (claimed effective at weak dilutions; to permit reduction of derris or cube powder as much as 25 percent; to be quick wetter of derris or cube powders, sulphur, copper, and other such toxicants; superior in its synergistic action with rotenone and pyrethrum and in its action on foliage which is difficult to wet).

Hexamethylene-Dithiocarbamic Acid Salts

Pesticide—Claimed (U.S. 2187719) as fungicide, insecticide.

Linoleyl Alcohol (Blown) Sulphuric Esters

Fuel—Addition agent (Brit. 541480 and 541481) for fuels.

Lubricants—Addition agent (Brit. 541480 and 541481) for lubricants.

Miscellaneous—Addition agent (Brit. 541480 and 541481) in polishes of various kinds.

Claimed (Brit. 541480 and 541481)) valuable as detergent and as dispersing, emulsifying, and wetting agent.

4-Methylcyclohexyl Hydroxy-isobutyrate

Ceramic—Solvent (U.S. 2348710) in compositions used as coatings for protecting and decorating ceramic articles.

Electrical—Solvent (U.S. 2348710) in insulating compositions used for covering wire and in making electrical machinery and equipment.

Glass—Solvent (U.S. 2348710) in compositions used in the manufacture of non-scatterable glass and as coatings for protecting and decorating glassware.

Leather—Solvent (U.S. 2348710) in compositions used in the manufacture of artificial leathers and as coatings for protecting and decorating leathers and leather goods.

Metal-Fabricating—Solvent (U.S. 2348-710) in coating compositions used for protecting and decorating metallic articles.

Miscellaneous—Solvent (N.S. 2348710) in coating compositions used for protecting and decorating articles of various sorts.

Paint, Varnish, and Lacquer—Solvent (U.S. 2348710) in paints, varnishes, lacquers, enamels, and dopes.

Paper—Solvent (N.S. 2348710) in compositions used in the manufacture of coated papers and as protective and decorative coatings for articles made of paper and pulp.

Plastics—Solvent (U.S. 2348710) in making laminated-fiber and molded articles, also various plastic materials.

Rubber—Solvent (U.S. 2348710) in compositions used as coatings for decorating and protecting rubber goods.

Stone—Solvent (U.S. 2348710) in compositions used as coatings for decorating and protecting artificial and natural stone.

Textile—Solvent (U.S. 2348710) in compositions used in the manufacture of coated fabrics.

Wood—Solvent (U.S. 2348710) in compositions used as protective and decorative coatings on woodwork or for many filling and repairing purposes on wood.

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(Pine, Pitch, Pix, Pix Arida, Pix Nigra)

Building Materials—Component of felts, insulating cements, and roofing and waterproofing compositions.

Electrical—Ingredient of battery, dielectrical, and electrode compositions, electrical tapes.

Forestry—Coating agent for posts, trees. Ingredient of protective compositions.

Fuel—Basic material and binder in briquetted fuels.

Leather—Ingredient of dressings, fillers, artificial compositions.

Metallurgical—Carburizing agent for steel.

Ingredient of carburizing compositions, core compounds.

Mining—Binder in ore briquetting.

Miscellaneous—Binder for many purposes.

Filler in many products.

Ingredient of binding, brake-impregnating, coating, dressing, and waterproofing compounds, friction bands.

Preservative for wood.

Waterproofing agent for various purposes.

Pharmaceutical—In compounding and dispensing practice (reputed useful in treating cutaneous diseases, hemorrhoids).

Paint, Varnish, and Lacquer—Ingredient of cements, impregnating compositions, paints, stains, waterproofing.

Public Works—Base material in making emulsified road paving and patching compositions.

Rubber—Filler in rubber substitutes, sneaker sole compositions.

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Chemical—Claimed useful to effect ester-ester, aldehyde-ester, and ketone-ester Claisen condensations without reducing unsaturation of the reacting materials; to effect the preparation of any ester of acetoacetic acid and its homologs up to and including C_{18} acid esters without reducing carbonyl groups (relatively high temperatures, therefore, can be used with shortened reaction time); to form monosodium derivatives of compounds containing acidic hydrogen, such as malonic and acetoacetic esters, also alcohol-free derivatives of unsaturated alcohols and acetylenic hydrocarbons (in these cases, it does not reduce unsaturation); to catalyze partial hydrogenation of polynuclear hydrocarbons, such as naphthalene, anthracene, and fluorene, even when these are contaminated with sulphur; to catalyze polymerization of butadiene and the addition of active methylene-containing compounds to acrylonitrile; to reduce metal oxides and salts to the metals, under suitable conditions.

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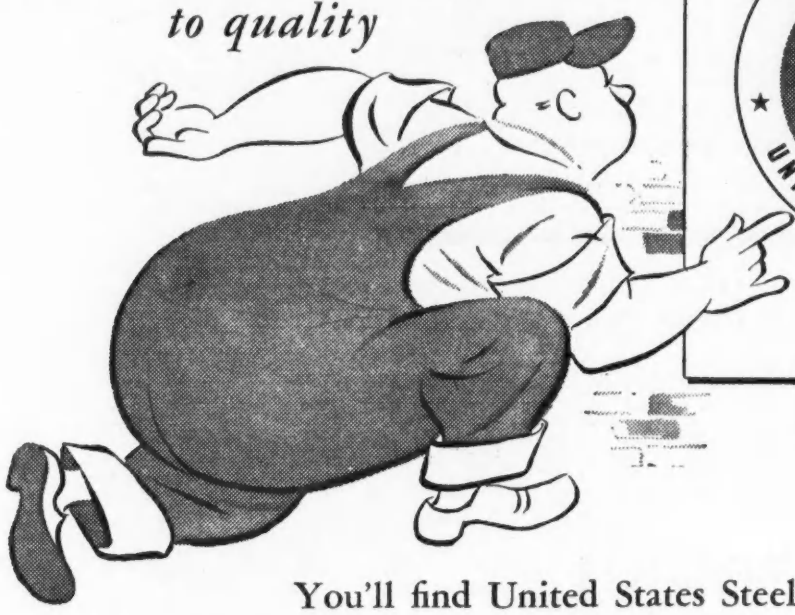

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Textile and Leather Chemicals

Business in textile and leather chemicals last week was of moderate volume. Consumers continued to limit purchases for immediate and prompt requirements and closely watched developments in the steel strike situation. Prices were off for edible albumen egg, sago flour and corn derivatives. Price index declined to 305.1, compared with 307.8 the week previous and 369.1 at this time last year.

Lower replacement costs continued to unsettle the sago market and supplies on the spot declined moderately for fair sized quantities. Other sizing materials remained steady and unchanged. Inquiry for potato starch was fairly active, and with Maine starch scarce, the bulk of trading took place in the starch for shipment from Idaho.

New export prices for quebracho extract were not announced last week and were awaited with a great deal of interest by the trade. The consensus is that prices may be about 1 cent per pound lower than those that prevailed before the devaluation of the Argentine peso. A good consuming inquiry for replacements was reported in the market. While producers of wattle bark and extract have not announced prices of new crop, offerings of bark were reported at about $15 per ton below quotations prevailing before the English pound was devalued.

Cattle hide leather production in August, totaled 1,997,000 hides, compared with 1,566,000 in July. Calf and whole kip skins also were larger at 863,000 skins against 571,000; goat and kid skins, 2,690,000 skins, against 2,364,000 and sheep and lamb skins, 2,585,000 against 1,834,000.

August wool consumption averaged 10,000,000 pounds per week on a scoured basis, 37 percent above July consumption, according to the Bureau of the Census. The August increase, although partly seasonal in character, was larger than that noted for August in any recent year. The increase was due chiefly to the greater consumption of carpet class wool which was about 62 percent above the July weekly average. Despite the August increase, wool consumption for the first 34 weeks of 1949 was about 34 percent below that for the same period of 1948.

Market Trends

Prices Advanced

None

Prices Reduced

Corn dextrin, 10c. per 100 lbs.
starch, 10c. per 100 lbs.
tanners sugar, 10c. per 100 lbs.
Egg albumen, flake, 3c. per lb.
Sago flour, ¼c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
305.1	307.8	314.8	369.1

(*For Current Prices see Page 9*)

Chemicals

Acetic Anhydride—Consuming demand was reported fairly active, chiefly against current contracts. Market was unchanged.

Bichromates — Deliveries against contracts were reported in steady request, while new business was light and spasmodic. Export business lacked improvement and continued spotty. Prices were without change. Exports of sodium bichromate and chromate totaled 1,005,990 pounds valued at $114,955 during July were reported by the Census Bureau.

Sodium Acetate—Trading was moderate, mainly for prompt requirements. Market was unchanged and ruled steady.

Soda Hydrosulphite — Conditions were unchanged in this market. New business was quiet, with consumers taking fair sized quantities against previous orders. Quotations were without change.

Sulphonated Oils—Demand was confined to actual requirements. Prices were unchanged and maintained for all grades.

Sizing Materials

Blood Albumin—Trading was reported restricted to actual requirements. Prices for albumin and dried soluble blood were held at former levels.

Corn Dextrin — Routine demand was noted for all grades. Quotations were reduced 10c. per 100 pounds for all grades.

Corn Starch—Consuming inquiry was fairly active, with trading spotty. Prices were cut 10c. per 100 pounds and guaranteed against advances until October 30. Visible corn supply was increased 1,380,000 bushels to 12,508,000 bushels for the week ended October 15, compared with 1,378,000 bushels for the same time last year, according to the Chicago Board of Trade.

Egg Albumen—Trading was reported fairly active, chiefly for prompt requirements. Market was easier for edible flake and declined to $2.05 to $2.10 per pound, as to quantity. Technical was unchanged at 98c. to $1.05 per pound. Egg support price during November and December was unchanged at 35c. per dozen for shell eggs, the same level that prevailed during 1949. Offerings of dried egg for November delivery began October 11 and for December delivery will be received November 8.

Egg Yolk—Sold up production continued to restrict business. Prices were entirely nominal at $1.40 to $1.45 per pound. Stocks on spot were small, with sellers restricting sales to regular customers. Available supplies of Chinese yolk were light and moved readily at $1.25 to $1.30 per pound, duty paid as to quantity for spot delivery.

Potato Starch—Stocks of old crop starch were limited and well held at 6.30c. per pound, carlots, New York, and at 7¼c., ex warehouse, spot. Business was reported fair, chiefly for prompt needs. New crop production in Maine was expected to start within several weeks. Idaho starch was reported in good inquiry for prompt shipment.

Rice Flour—Trading was confined to small lots for spot delivery. Market was steady at 11½c. per pound, ex warehouse.

Sago Flour—This market continued unsettled with primary sources. Business was slow. Supplies on the spot were quoted at 5c. to 5½c. per pound, ex warehouse, according to quantity. Consuming interest was inactive.

Tapioca Flour—Demand was reported fair. Supplies on the spot were quotably unchanged for all grades. Inquiry for replacements from Brazil was still slow, as buyers were watching developments in the Brazilian exchange situation. High grade was quoted at 9c. to 9¼c. per pound, ex warehouse, as to quantity; medium, 8c. to 8½c., and low, 7c. to 7½c., same basis.

Tanning Materials

Chestnut Extract—Trading was confined to small lots for immediate delivery. Stocks were adequate to cover demand.

Cutch—Offers for shipment continued light, affecting business. Buying interest was fairly active. Price for shipment was well held.

Mangrove Bark — Arrivals of South American bark totaled 1,685 bags at New York last week. Business of late has been restricted to the South American grade owing to the lack of stocks for export at African sources.

Myrobalans—Buying interest was reported slow. Recent business booked for shipment was for limited quantities. Arrivals last week totaled 915 bags at New York for delivery against former orders. Offers for shipment were maintained at current levels.

Quebracho Extract — The trade still awaited the announcement of the official export prices for shipment from the Argentine which were withdrawn following the lowering of the peso. Consuming inquiry was more active, but the volume of business to be placed depends upon the new prices. Imports were reported at 27,110 bags at New York from Buenos Aires last week for delivery against orders placed before the devaluation of the Argentine peso.

Sumac—Consuming interest in replacements for bark and leaves from Italy continued inactive. Lower prices announced recently did not improve demand.

Valonia—Some 3,100 bags of cups were received at New York last week against recent orders. Market remained unchanged and steady as available stocks for shipment were said not to be plentiful.

Wattle—While new schedule for shipments of bark and extract were not officially announced, offers for shipment were reported in the market for fair average bark at $68 per ton, and merchantable at $63 ex dock, and extract at 6¾c., same basis. Advices from Africa stated that producers would announce prices shortly for shipment of new crop available during December-January.

For Late Market Developments, See Page 4

Oil Chemists to Hear

—Continued from page 7

table Oils in Printing Inks," by W. C. Walker, National Printing Ink Research Institute.

November 1

At the general sessions in the morning the following papers will be presented:—"Alcohols from Menhaden Oil by Sodium Reduction," by E. H. Pryde, E. I. du Pont de Nemours & Co.; "Simplified Methods for Determining Composition of Commercial Stearic and Palmitic Acids," by R. M. Peters and W. C. Clark, Emery Industries, Inc; "Fatty Acid Distillation. Comparison of Two Column Types," by F. C. Williams, University of California, and J. O. Osburn, University of Iowa; "Modification of Vegetable Oils, IX. Purification of Technical Monoglycerides," by R. O. Feuge and A. T. Gros, Southern Regional Research Laboratory; "Molecularly Distilled Monoglycerides, I. Preparation and Properties," by N. H. Kuhrt, E. A. Welch, and F. J. Kovarik, Distillation Products, Inc.; "Molecularly Distilled Monoglycerides, II. Baking Experiments," by N. H. Kuhrt and E. A. Welch, Distillation Products, Inc.; "Added Chemicals in Foods with Special Reference to the Oil and Fat Industry," by W. B. White, Food and Drug Administration.

"Preparation and Properties of Alkyl a-Acyloxyacetates and Propionates from Soaps and a-Halogeno-esters," by J. K. Weil, A. J. Stirton, and Anna A. Stawitzke, Eastern Regional Research Laboratory; "Fatty Acid Compositions of Lipids from Corn and Grain Sorghum," by A. R. Baldwin and M. S. Sniegowski, Corn Products Refining Company; "Modified Fat for Tin Plating Industry," by William Johnson, Armour Research Foundation; "Solidification Point Diagrams of Binary Mixtures of the n-Aliphatic Alcohols, Even Series C_{10} to C_{30}," by H. A. Schuette and A. J. Schlaegar, University of Wisconsin; "The Reaction of Stearic Acid with Glycerol," by Charles W. Hoerr, Swift & Co.; "Physiological Studies on Gossypol and Cottonseed Pigment Glands," by Edward Eagle, Swift & Co.; and "Reaction of Tertiary Butyl Hypochlorite with Vegetable Oils and Their Derivatives. III. Chlorination of Soybean Oil in the Pilot Plant," by E. W. Bell and H. M. Teeter, Northern Regional Research Laboratory.

A session on engineering, to be held in the afternoon, will hear the following papers:—"Solvent Extraction II. The Soaking Theory of Extraction," by H. B. Coats and George Karnofsky, Blaw-Knox Division; "Solvent Extraction III. The Effect of Particle Size on Extraction Rate," by H. B. Coats and M. R. Wingard, Blaw-Knox Division; "Decolorization of Tallow by Liquid-Liquid Extraction with Propane," by E. B. Moore, Lever Brothers Company; "Progress Report on Hygirtol Hydrogen Plants," by R. M. Reed, Girdler Corporation; "Improvements in Hydrogenation Plant Design and Operation," by F. B. White, Foster Wheeler Corporation, and S. Faulkner, E. F. Drew & Co.; "Commercial Production of Nitrogen Fat Chemicals," by Ralph H. Potts and H. P. Young, Armour & Co., and "Refining of Extracted Cottonseed Oil by Solvent Extraction," by W. D. Harris, Texas A. & M.

November 2

There will be a session on fat stability and an analytical session in the morning and a general session in the afternoon. Papers to be presented at the three sessions are as follows:—

"The Flavor Problem of Soybean Oil. VI. Flavor and Oxidative Stability of Furfural Fractionated Oil," by A. W. Schwab, H. A. Moser, P. A. Cooney, and C. D. Evans, Northern Regional Research Laboratory; "The Flavor Problem of Soybean Oil. VII. Effect of Trace Metals," by C. D. Evans, A. W. Schwab, H. A. Moser, and J. C. Cowan, Northern Regional Research Laboratory; "Metal Deactivation in Lard," by S. G. Morris, J. S. Myers, jr., Mary L. Kip, and R. W. Riemenschneider, Eastern Regional Research Laboratory; "Potato Chip Frying with Antioxidants," by J. E. Magoffin, Tennessee Eastman Corporation; "Sesame Oil. IV. The Determination of Free and Bound Sesamol in Sesame Oil," by P. Budowski, R. T. O'Connor, and E. T. Fields, Southern Regional Research Laboratory; "Sesame Oil. V. The Stability of Sesame Oil," by P. Budowski, F. G. T. Menezes, and F. G. Dollear, Southern Regional Research Laboratory, and "Methods for Inhibiting the Development of Free Fatty Acid in Brown Rice," by E. B. Kester, Western Regional Research Laboratory.

"Factors Involved in the Spectrophotometric Analysis of Fats," by G. C. Potter and Fred A. Kummerow, Kansas State College; "Comparison of Infrared Spectrophotometric and Lead Salt Alcohol Methods for the Determination of Trans-Isooleic Acids," by D. Swern, H. B. Knight, Eastern Regional Research Laboratory, and O. D. Shreve and M. R. Heether, E. I. du Pont de Nemours & Co.; "Applications of Infrared Spectroscopy to Fat and Oil Chemistry," by E. F. Binkerd and H. J. Harwood, Armour & Co.; "Countercurrent Distribution Studies on Fat Soluble Plant Pigments," by C. R. Lancaster and H. J. Dutton, Northern Regional Research Laboratory; "Investigation of Methods for Determining the Refining Efficiency of Crude Oils," by L. L. Linteris and E. Handschumaker, Lever Brothers Company; "Adsorption Analysis of Lipids. IV. Fractionation of Cholesterol and Ergosterol," by F. K. Kawahara and H. J. Dutton, Northern Regional Research Laboratory; "An Improved Rapid Method for Determining Iodine Numbers," by G. H. Benham and L. Klee, Illinois Institute of Technology, and "The Determination of the True Iodine Numbers of Oils Containing Conjugated Double Bond Systems," by L. Klee and G. H. Benham, Illinois Institute of Technology.

"Some Factors Affecting the Stability of Skin Tissue Fat," by W. Wingard and F. A. Kummerow, Kansas State College; "Composition of Corn Phosphatides," by C. R. Scholfield and H. J. Dutton, Northern Regional Research Laboratory; "The Inositol Lipids of Soybean," by W. P. Celmer and H. E. Carter, University of Illinois; "Comparative Studies of the Thermal and Photochemical Oxidation of Unsaturated Fatty Acid Esters," by M. J. Hendrickson and W. O. Lundberg, Hormel Institute, University of Minnesota; "Extraction and Evaluation of Oil from Dried Brewers' Grains," by J. F. Brasch, P. Gibbs, and J. A. Siefker, Anheuser-Busch, Inc.; "Solvent Refining of Fatty Oils. II." By M. Mattikow, Refining Uninc., and "Two Useful Accessories to the Beckman Spectrophotometer Model DU," by T. H. McGuine and W. E. Moss, Wilson & Co.

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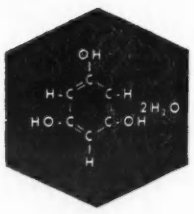

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Drugs and Fine Chemicals

Drug items were the only products to undergo a price change in this market last week. Codliver oil declined another 20 cents per gallon early in the week as a result of further price declines in Norwegian primary markets. Hydroxyquinolin materials were reduced in price with the exception of the phosphate and the sulphonic acid. Oxyquinolin sulphate declined 25 cents per pound and iodochlorohydroxyquinolin was down 50 cents per pound. Epinephrine was off 5 cents per gram. Corn syrup dropped 10 cents per 100 pounds. The index dropped 0.6 point, becoming 257.1.

Price stability continued to characterize the market for organic industrial chemicals and solvents under conditions of a steadily increasing demand. The drug business was reported as steady at a fair volume of trading, and most firms expected a significant increase in business to develop in early November. Meanwhile, there were few price changes and the price position on most items was expected to hold for the balance of the year.

There was some price movement in the market on procaine hydrochloride as at least two producers advanced prices 25 cents per pound on 1,000 pound lots as a result of increased material and labor costs. However, not all producers had as yet gone along with the move, and continued to quote the old level of prices in effect over recent weeks.

While chemical solvent producers were enjoying the best spurt in business in several months, they were anxiously watching developments in the steel strike because a prolonged strike would cause producers of metal painted products to run out of steel, which in turn would curtail the demand for protective coatings and hence for ester, ketone, and alkyl alcoholic solvents. For the same reasons glycerin producers would be hardest hit through a decline in demand for alkyd resins of which glycerin is the most important polyhydric alcohol used in resin manufacture. As yet none of these anticipated effects had developed.

Vitamin products, as well as antibiotics, were for the most part in good demand under a firm price position. Narcotics were stable, and after the price adjustments in recent weeks alkaloids appeared to be firm.

Acid, Ascorbic — The market remained firm on this item and producers were looking toward an increased consumption during the coming Winter months. USP material was firmly quoted at $24.50 per kilo for 500 kilo quantities, and varied as to quantity up to $26.41 for one kilo shipments. This price level has prevailed for a long time and the tone of stability in the market indicated no price changes likely to develop in the immediate future.

Acid, Citric — Demand for citric acid was felt to be keeping up better than had been expected, due in part to the mild weather still prevailing. A seasonal curtailment in demand was expected. Prices were firm at levels prevailing over recent months, and there was no change expected.

Acid, Tartaric—The supply of this material was reported as quite ample. Demand was at a moderate level, and the price position was unchanged from the levels prevailing over recent months. Domestic output was such as to be able to take care of all domestic requirements, and trading in foreign source material was reported as relatively light.

Alcohol—This market, while still not too active, was reported showing a continually increasing demand. Supplies were abundant, there were no changes in price schedules, and none expected.

Ammonium Bromide—The NF material in granular form was quoted at 36c. per pound in 450 pound barrels, and 37c. in 100 pound drums. Prices ranged upward to 40c. for 25 pound drums. Supplies were plentiful on this item for which there was limited call.

Bismuth Oxychloride — This item was firmly priced in the range of $3.97 to $4 per pound in 25 pound drums. Demand was described as slow, and supplies were regarded as plentiful.

Bismuth Subnitrate — NF material was firmly quoted at $2.30 per pound in 200 pound drums, $2.32 in 100 pound drums, and $2.33 in 25 pound drums. These prices were uniform for the various physical forms whether dense, medium-dense, or light bulky material. Supplies were abundantly available against which there was a steady relatively low volume of demand.

Butyl Solvents—Alcohols and esters of all butyl type solvents were reported moving in good volume under a strong demand last week. Prices all across the board were firm and unchanged from levels established in the third quarter. There was as yet no apparent effect of the current coal and steel industry strikes on the solvent markets, but it was generally felt that there would be a delayed adverse reaction, particularly if the steel strike becomes prolonged and manufacturers of painted metal products run out of steel.

Castor Oil—This market held steady at a moderately good business volume and firm prices. Beans were still quoted at $106 per long ton.

Arrivals of beans last week were heavy totaling 71,011 bags equivalent to 10,651,650 pounds, compared to 17,193 bags or 2,578,000 pounds the previous week, and with 58,745 bags or 8,811,750 pounds during the corresponding week of last year.

Total imports since January 1 of this year amounted to 1,343,791 bags equivalent to 201,568,650 pounds, compared with 1,083,258 bags equivalent to 162,584,700 pounds during the corresponding period of 1948.

Codliver Oil—There was a further decline last week in the domestic market on codliver oil, in which the price per gallon dropped 20c. This brought current codliver oil quotations to $1.50 per gallon compared to the previous listing of $1.70. Back of the price drop on the domestic market was the price reduction made in shipping prices in Norway, in which c.i.f. United States ports quotations were lowered from the recently established level of $47.75 per thirty gallon drum, to the new lower level of $41 per drum. This was the second decline in codliver oil prices in the primary market in a matter of a few weeks, and these declines were promptly reflected in the domestic market. Imports amounted to 460 drums last week.

Corrosive Sublimate — There was no price change in this or other mercurials, since the recent decline in iodides by virtue of lower iodine prices. Corrosive sublimate together with the other mercurials held to price schedules prevailing over recent months and no change was expected. Supplies were quite adequate to take care of the limited demand characteristic of the market.

Corn Syrup—The price of this item was reduced late last week by 10c. per 100 pounds.

Epinephrine—Quotations on USP material were reduced in some quarters last week, bringing quotations to as low as 45c. per gram in small quantities. The range of prices currently stood at 45c. to 50c. per gram.

Ethyl Ether—Supplies of all grades of this item were abundant. An improved demand for industrial solvent uses was noted, while other end-use channels were steady. Synthetic and USP industrial ether moved in good volume at 8½c. per pound in tankcars on a delivered basis, while drum carlots were listed at 10½c. per pound and less than drum carlots at 12½c.

The USP anesthesia in cans was priced at the hospital level at 75c. per pound in 50 pound lots, and varied upward as to quantity and size of packaging to 90c. per pound. Absolute ethyl ether meeting ACS specifications was quoted at 30c. per pound in drum quantities.

Glycerin—Supplies of refined glycerin were reported to be in reasonable balance with demand, with shipments moving about on a par with production output. Prices were firm and no change expected in the balance of this quarter at least.

Crude of domestic origin was sold up for October. Imported crude from Russia, the first shipment of which arrived as reported here the previous week, was being shipped in various lots. The entire first purchase of Russian crude was likely to be delivered by the first of the year. Meanwhile a second purchase of 1,000 tons of

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

Codliver oil, 20c. per gal.
Corn syrup, 10c. per 100 lbs.
Epinephrine, 5c. per gm.
Iodochlorohydroxyquinolin, 50c. per lb.
Oxyquinolin sulphate, 25c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
257.1	257.7	261.6	260.1

(*For Current Prices see Page 9*)

Russian crude was made, but will be diverted to Germany for consumption there. Most of the Argentine crude stocks have been purchased during October.

The overall effect of foreign crude purchases was expected to be one of a gradually easing crude supply position in the American market leading ultimately to price levels on crude more in line with their usual relation to refined glycerin prices. This was felt to be true because many buyers of crude were getting enough on hand for the balance of the year, and in addition to more abundant crude supplies there was developing a less active buying interest.

At this point it appeared that the present steel industry strikes would become prolonged, in which event, according to the feeling expressed in most quarters, the consumption of refined glycerin was expected in a matter of weeks to drop sharply. This was so because the glycerin industry would be hardest hit from the direction of the protective coating industry where glycerin is widely used to manufacture alkyd resins. There were two ways in which glycerin consumption would be adversely affected by a prolonged steel strike. The first effect likely to be felt would be due to the shortage of steel in automotive and other manufacturing industries which would curtail production, cutting down the demand for alkyd resin based enamels, thus curtailing the demand for glycerin in the resin manufacture. The second way in which the glycerin market would be affected lay in the shortage of naphthalene which is used to make phthalic anhydride, an ingredient of alkyd resins. These two effects were likely to develop simultaneously.

Hydroxyquinolin and Salts—One producer announced price reductions in oxyquinolin and its compounds last week. Quotations per pound were reduced as follows: Chiniofon USP from $5.60 to $5.10; di-iodohydroxyquinolin from $6.40 to $5.90; pure hydroxyquinolin benzoate from $4.50 to $4; hydroxyquinolin citrate from $4.75 to $4.25; hydroxyquinolin hydrochloride from $6 to $5.75; hydroxyquinolin phosphate was unchanged; hydroxyquinolin salicylate from $6 to $5.75; hydroxyquinolin sulphate from $5 to $4.25; hydroxyquinolin sulphonic acid was unchanged; iodochlorohydroxyquinolin from $6.50 to $5.90; and iodohydroxyquinolin sulphonic acid from $6.40 to $5.90.

Iron Gluconate—In lots of 2,000 pounds, ferrous gluconate of NF quality packaged in 100 pound drums was priced at 83c. per pound. Five hundred pound lots on the same basis were listed at 85c., and prices ranged upward varying as to quantity to $1.07 per pound for five pound lots.

Lithium Salts—The market position of the various lithium salts was described as one in which there was a steady moderate demand, currently only slightly improved over the demand situation which prevailed during recent months. This was in line with the experience in inorganics generally, because inorganic chemicals did not feel the pinch of the business slump this year until well after the slump had hit organic chemicals. Currently, the organic chemicals were recovering from the slump more rapidly than was generally the case with inorganic chemicals.

Quotations on lithium salts were unchanged from levels which have prevailed over recent months. Lithium benzoate was priced in drums at $1.65 per pound, and was reportedly in limited demand. Lithium bromide of NF quality was firmly quoted at $1.90 per pound in barrel quantities. The NF grade of lithium carbonate was quoted in the range of $1.10 to $1.15 per pound depending on quantity. NF lithium citrate was quoted at $1.25 to $1.40 per pound in various quarters. Lithium fluoride in barrel quantities held to the prevailing price of $1.95 per pound. Meanwhile the hydroxide was quoted at $1.10 per pound in drum lots, and lithium salicyclate for which there was only a limited demand was quoted in the range of $1.62 to $1.70 per pound. Supplies of lithium salts were reported as quite ample to meet all calls.

Magnesium Gluconate—This item in 25 pound drums was quoted at $1.86 per pound, with $1.93 per pound listed on 5 pound cans. Supplies were regarded as ample. Material quoted at these prices had a magnesium oxide equivalent of 5.4 percent.

Manganese Gluconate — This material having a manganese content of 11.4 percent metal equivalent, was priced in 25-pound drums at $1.86 per pound. The five-pound canister was priced at $1.93, and one-pound cans at $2. Supplies were regarded as adequate.

Menthol—Price levels last week were held unchanged. Trading was particularly sluggish, and buyers were showing little interest. On the other hand sellers were not too anxious to move material after the

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recent declines in the hope that the market might strengthen. There were conflicting opinions in the trade as to the likely direction prices would take. New crop material was still not due until late January, and some quarters were inclined to feel that the price structure would get stronger before it got weaker in view of the new crop coming on the market. Other quarters held to the view that since consumers of menthol in any considerable amount were carrying heavy inventories bought at prices below the current market, that little trading could be done over the coming weeks at current or higher prices, and therefore as the year runs out prices would decline. Imports amounted to 35 cases last week.

Mercury Iodide—Red mercuric iodide was firmly priced at $4.07 per pound for the NF material in 100-pound drums. Smaller quantities ranged upward to $4.19 per pound for five-pound lots. Demand was reported as slow, and in this respect was comparable to mercurials in general. Supplies were quite adequate. The current quotations effected some weeks ago represented a decline of 25c. per pound. This was not due to any general decline in mercurials, but was rather the effect of lower iodine prices.

For the same reason a reduction of 20c. per pound was made on yellow mercurous iodide bringing current quotations to $4.22 per pound for the NF material in 100-pound drums, and ranging upward as to quantity to $4.34 per pound for five-pound lots.

Phenolphthalein—This material maintained its usual steady market position and firm price structure, unchanged from levels prevailing over recent months. Drums were still quoted at $1.02 per pound with no price change expected in the immediate future.

Potassium Bromide—This material in either crystalline or granular form was priced in a slow but steady market at 33c. per pound in 400-pound barrels, 34c. in 100-pound drums, and 36c. in 50-pound drums. The 25-pound drum was quoted at 37c. per pound. The limited demand for bromides over recent months made for a stable price position and plentiful supplies. No change in the market was expected to develop in the immediate future.

Potassium Citrate—This material continued in good demand, and with the advent of Winter weather an increased inquiry was expected. Prices were firm at 37½c. for the granular material and 40½c. for the powder in 250-pound drums. In 100-pound drums prices were 1c. higher.

Procaine Hydrochloride—As a result of the increased raw material costs, increased freight rates, and high labor costs involved in the manufacture of this item, some producers advanced the price 25c. per pound on quantity bulk shipments. The new price schedule of these producers is as follows:—In quantities of 1,000 pounds the per pound price was established at $4; 500-pound lots were quoted at $4.10; 100-pound lots at $4.25; 50-pound lots at $4.30, and 25-pound lots at $4.35.

However, at least one producer continued to quote $3.75 per pound on 1,000-pound lots, $4 on 100-pound lots, and $4.25 on 25-pound lots, with one-pound listed at $5.

Riboflavin—The price of the readily soluble grade of this item was erroneously reported in the previous issue as $175 per kilo. It is currently quoted at $125 per kilo, the same price level at which the regular USP material is quoted.

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Wm. S. Merrell President

Nelson M. Gampfer has been elected president and general manager of the Wm. S. Merrell Company, Cincinnati, and has thus become the first person outside the Merrell family to head the company in its 121 year history. Thurston Merrell, who was formerly president, is now chairman of the board of directors. Mr. Gampfer has been associated with the company for twenty years, and has advanced to the presidency through the posts of advertising manager, sales promotion manager, general sales manager and vice-president and director of sales and advertising.

NF Committee Holds Conference on NF IX

An open conference on the general contents and individual monographs of the National Formulary IX, which is now in course of preparation, was held at the Statler hotel, Washington, on October 8. This meeting was arranged by the American Pharmaceutical Association, publishers of the National Formulary, to give anyone interested an opportunity to make specific suggestions for possible changes in the proposed monographs on drugs which are to appear in NF IX, prior to their final approval by the NF committee.

A number of suggestions dealing with specifications in NF IX monographs were offered by those in attendance. These included recommendations with respect to the monographs on histidine monohydrochloride, liver preparations for oral administration, magnesium hydroxide morphine and atropine sulphate tablets, parenteral solutions containing iodides, quinine salts and their preparations, rutin, sodium indigotindisulphonate (indigo carmine), strychnine salts and their preparations, and others. General contributions relating to tolerances in estimating the purity of drugs, distintegration tests for tablets, and packaging and storage requirements were also considered.

Persons who were unable to attend this open conference and who wish to send in suggestions by letter or otherwise are requested to do so as soon as possible. Comment or criticism should be addressed to Dr. Justin L. Powers, chairman, Committee on National Formulary, American Pharmaceutical Association, 2215 Constitution avenue, N. W., Washington 7, D. C. It is expected that the new NF will be ready for distribution in the latter half of the year 1950.

Dolcin Ltd. Alleges Patent Infringements

Dolcin Limited, Toronto, Ont., proprietor of the trademark, "Dolcin," applied to a succinate-salicylate preparation offered for the treatment of rheumatic disorders, reports that it has warned the makers of six similar compositions that their products infringe its Canadian patent, No. 459,655, dated September 13, 1949.

The warning, the company says, stipulated that sale of the allegedly infringing products in Canada must be stopped after ten days; otherwise it would begin proceedings without further notice.

German Drug Data Available

Much new information on German research and production in the pharmaceutical field is cataloged in research bulletin No. 38 of the Research Information Service, 509 Fifth avenue, New York 17. Copies of the bulletin may be got from the service without charge.

This bulletin is a catalog of patent data and related information. The first section covers I. G. Farbenindustrie activities with relation to thiosemicarbazones and sulphonamides. The second section covers research on penicillin and vitamins. The last portion lists more than fifty I.G.F. manufacturing processes for vitamins and various drugs and other compounds, from acetylbenzylamine to zephirol.

India Takes Steps To Stop Price Rises

The government of India has taken measures to prevent a speculative rise in prices in India, consequent on the devaluation of the rupee. Among the measures are the assumption of power to impose export duties on vegetable oils, oilseeds and shellac, among other items, and the imposition of an export duty of 8 annas on mustard oil. In addition, to counter the rise in prices of certain scarce imported drugs, mostly from dollar areas, the allocation of foreign exchange for the import of such drugs from the United States has been more than doubled. In another step, the government has decided to take measures to stop speculation in the main export commodities, and has asked the government of West Bengal for an immediate banning of futures in jute manufactures.

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*Ishmael, Hellbaum, et. al., Jour. Okla. State Med. Assoc. Vol. 42, No. 10, Oct., 1949

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Kessler Chemical Forms Kessco Chemicals Corp.

Kessler Chemical Company, Philadelphia, has formed a sales affiliate, Kessco Chemicals Corporation, to handle sales

Stanley F. Choate

Maurice J. O'Connor

and distribution of the entire line of the parent company's products. Maurice J. O'Connor has been named sales manager of the new firm, with headquarters in Philadelphia, and Stanley F. Choate has been placed in charge of the recently opened midwest sales office at 333 North Michigan avenue, Chicago.

Representation of Kessco Chemicals Corporation in the New York area will be by W. W. Angus, Inc., 220 Broadway, New York, and in New England by M. F. Robie & Sons, Braintree, Mass.

The new organization will offer improved technical service to the company's customers, and the parent company is currently expanding its technical service laboratory.

Riches-Nelson Engages Mingst

Riches-Nelson, Inc., New York, has added Fred J. Mingst to its sales organization. Mr. Mingst was formerly associated with the lanolin division of the American Chemical Paint Company, Ambler, Pa., and he was previously with the Roessler & Hasslacher Chemical Company.

Trade Briefs

Goggle Parts Company, Cleveland, Ohio, has developed a new product, "Flex-a-Foam" filter masks for protection against non-toxic nuisance dusts.

United States Foreign Corporation and the Sinex Corporation have jointly leased the front half of the eighth floor of the Squibb building at 745 Fifth avenue, New York.

Winthrop-Stearns, Inc., has added a new, vanillin-based oral amino acid preparation to its essenamine group for use in restoring nitrogen balance in patients needing amino acid therapy.

Sargent Completes New Office, Factory Building

E. H. Sargent & Co., manufacturer of laboratory instruments, apparatus and chemicals, has completed a new building for its Chicago offices and plant. Located at 4647 West Foster avenue, the new building houses complete engineering, production, merchandise handling and warehouse facilities, as well as offices, physical and chemical laboratories, instrument factory and other facilities.

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APMA Names Chairmen Of 1949-50 Committees

The American Pharmaceutical Manufacturers Association has appointed committees for the 1949-1950 year. Chairmen of the various groups are as follows:—

Budget and administration affairs, Howard B. Fonda, Burroughs Wellcome & Co.; entertainment, R. P. Neptun, S. B. Penick & Co.; export, V. A. Burgher, Ciba Pharmaceutical Products, Inc.; golf, Gerald F. Pauley, Monsanto Chemical Company; industry and business policy, Robert A. Hardt, Hoffmann-La Roche, Inc.; ladies entertainment, Walter R. Nay, Mallinckrodt Chemical Works.

Medical section, eastern division, Dr. Charles E. Dutchess, Schenley Laboratories; central division, Dr. R. L. Conklin, Ames Company; western division, Dr. Paul W. Spickard, Rexall Drug Company; membership, J. K. Flint, Flint, Eaton & Co.; memorial, Fred A. Lawson, E. L. Patch Company.

Production, eastern section, H. E. Fortiner, Ciba Pharmaceutical Products Inc.; central section, Frank J. Messmann, Wm. S. Merrell Company; western section, Milton E. Olmsted, Boyle & Co.; social and economic developments, C. M. Bigelow, Calco Chemical Division, American Cyanamid Company; sectional policies, Harlow B. Boyle, Boyle & Co.

Subcommittee of contact committee on minimal laboratory standards, E. G. E. Shafer, Hoffman-La Roche, Inc.; tennis, John M. Sartorious, Reed & Carnrick, Robert Sartorious, J. L. Hopkins & Co., and Robert M. Smith, Medical Economics, Inc., co-chairmen; time and place, Robert A. Hardt, Hoffmann-La Roche, Inc.; trade name, Edgar L. Patch, E. L. Patch Company, and transportation, Robert B. Magnus, Magnus, Mabee & Reynard, Inc., with Walter R. Nay, Mallinckrodt Chemical Works, serving as chairman of the central section and T. W. Brandes, Rexall Drug Company, as chairman of the western section.

AEC Issues Booklet For Business Guidance

A new booklet describing how to do business with the Atomic Energy Commission is now available from the Superintendent of Documents, Government Printing Office. The booklet is entitled "U. S. Atomic Energy Commission Contracting and Purchasing Offices and Types of Commodities Purchased." It has been prepared to assist businesses interested in selling products used in the national atomic energy program. It is designed particularly for the guidance of small business concerns.

"In order to obtain business from the AEC or its contractors," the booklet states, "it is not necessary to employ counsellors, advisers, or any agents or agencies. Such persons or agencies cannot perform any service which any reader of this booklet cannot perform for himself." It is available for 10 cents.

Trade Briefs

Selas Corporation of America, Philadelphia, is producing a new liquid separator which accomplishes at production rates complete phase separation and recovery of liquids, including stubborn emulsions.

Arapahoe Chemicals, Inc., Boulder, Colo., has completed an additional building at its plant in that city and has resumed full operations following a slowdown caused by a fire in July.

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50 cs, Charles Gitlan & Co, Algonquin Victory, Antwerp
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BEES WAX—179 bgs, Algonquin Victory, Rotterdam
24 bgs, Vilco, Inc, Jamaica, Puerto Barrios
30 bgs, Will & Baumer Candle Co, Poseidon, Santiago
50 seroons, Lenape Trading Co, Poseidon, Puerto Plata
BERYL ORE—250 dms, J W Hampton, jr, & Co, Anna Odland, Kobe
BORNEOL—30 cs, J Henry Schroder Co, Algonquin Victory, Rotterdam
BOTANICAL HERBS—100 bgs, S B Penick & Co, Noordam, Rotterdam
BRUCINE ALKALOID—4 cs, American Forwarder, Glasgow
4 cs, Gane & Ingram, Inc, American Forwarder, Glasgow
SULPHATE—2 cs, Gane & Ingram, Inc, American Forwarder, Glasgow
3 cs, F W Berk & Co, American Clipper, London
BURNT SIENNA—2 bbls, M Grumbacher, Inc, President Buchanan, Leghorn
CADMIUM COLORS—1 dm, Paul Uhlich, Inc, Queen Mary, Southampton
METALLIC—69 cs, Old Importers, Inc, Anna Odland, Yokohama
80 cs, J W Hampton, jr, & Co, Anna Odland, Yokohama
CAFFEINE, ANHYDROUS—65 bbls, Algonquin Victory, Rotterdam
CANARYSEED—126 bgs, H D Shelton & Co, President Buchanan, Genoa
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32 bgs, O S Innes Corp, President Buchanan, Singapore
177 bkts, O S Innes Corp, Drente, Tandjong Priok
80 bkts, Gillespie-Rogers-Pyatt Co, Drente, Tandjong Priok
COPPER SULHATE—9 kgs, Werner G Smith Co, American Packer, Bremen
CRESYLIC ACID—100 dms, Hensel Bruckman & Lorbacher, Inc, American Forwarder, Manchester
129 dms, H A Gogarty, Inc, American Forwarder, Liverpool
250 dms, George F Smith, Inc, American Forwarder, Liverpool
51 dms, Concord Chemical Co, Gudrun Maersk, Rotterdam
185 dms, American Cyanamid Co, American Clipper, London
CYPRUS LEAVES—147 bgs, M J Golombeck, Inc, Exmouth, Larnaca
DAMMAR GUM—70 bgs, O G Innes Corp, Drente, Singapore
70 bgs, George H Linchs Co, President Buchanan, Singapore
DETRINE—150 bgs, Bank of Manhattan, Dalerdyk, Rotterdam
DIANITRO BENZOYL CHLORIDE—1 cs, Queen Mary, Southampton
DRUGS, CRUDE—39 bgs, S B Penick & Co, Algonquin Victory, Hamburg
2 cs, De Grasse, Havre
59 bls, Peek & Velsor, Inc, Executor, Genoa
3 cs, LoCurto & Funk Co, American Clipper, London
3 bgs, S B Penick Co, Jamaica, Puerto Barrios
DYESTUFFS—83 cyls, Sandoz Chemical Works, De Grasse, Havre
25 dms, Sandoz Chemical Works, Ile de France, Havre
100 dms, Sandoz Chemical Works, Dalerdyk, Rotterdam
ESSENTIAL OILS—4 cs, Atlantic, Cannes
7 cs, Florasyntha Labs, Inc, Atlantic, Cannes
1 dm, Florasyntha Labs, Inc, Atlantic, Cannes
5 dms, Atlantic, Cannes
2 cs, Atlantic, Cannes
2 cks, Coty Products Corps, Ile de France, Havre
20 dms, National City Bank, Pioneer Tide, Kobe
5 dms, Dodge & Olcott, Inc, Meredith Victory, Hongkong
5 cs, Antoine Chiris Co, Atlantic, Cannes
EUCALYPTUS OIL—6 dms, Lo Curto & Funk Co, Pioneer Tide, Hongkong
FISHLIVERS—80 bbls, Norwegian America Line, Frierfjord, Bergen
MEAL—4,200 bgs, Philadelphia National Bank, Asbjorn, Lisbon
FLEASEED HUSKS—594 bgs, S B Penick & Co, President Buchanan, Bombay
FROZEN GLANDS—3 bbls, International Packers Commercial Corp, Brazil, Buenos Aires
40 cks, Wilson Labs, Inc, Brazil, Buenos Aires
47 cks, Brazil, Buenos Aires
9 cks, E K Squibb & Son, inc, Brazil, Buenos Aires
FUEL OIL—58,631 bbls, Paragon Oil Co, Donges, Aruba
102,000 bbls, Esso Standard Oil Co, Esso Bethlehem, Aruba
10,000 bbls, Asiatic Petroleum Corp, Santa Rosa, Curacao
105,000 bbls, Esso Standard Oil Co, Abiqua, Aruba
103,077 bbls, American Petroleum Co, Atlantic Traveler, Caracas Bay
GALLNUTS—326 bgs, Zinsser & Co, Pioneer Tide, Hong Kong
336 bgs, Arnhold & Co, Meredith Victory, Hong Kong
GELATINE—100 dms, Jung Forwarding Co, American Packer, London
567 bgs, Transatlantic Animal By-Products Corp, Gerd, Buenos Aires
100 bgs, Transatlantic Animal By-Products Corp, Gudrun Maersk, Antwerp
1 cs, Coignet Chemical Co, Houffalize, Antwerp
GHATTI GUM—57 bgs, Intra Mar Shipping Corp, President Buchanan, Bombay
GINGER—22 bgs, Becker Mayer Seed Co, Fernland, Lagos
542 bgs, Mincing Trading Co, American Clipper, London
198 bgs, William Bernstein Co, American Clipper, London
49 bgs, Chemical Bank & Trust Co, American Clipper, London
135 bgs, Otto Geradu Co, American Packer, London
103 bgs, W E Martin Co, American Packer, London
287 bgs, Colonial Products Corp, American Packer, London
GLUESTOCK—1 bl, Tice & Lynch Co, American Packer, London
GUM—25 cs, Gillespie-Rogers-Pyatt Co, President Buchanan, Singapore
GYPSUM—2,950 tons, Newark Plaster Co, Blanche Sheridan, Walton
2,950 tons, Newark Plaster Co, Proctor, Walton
10,161 tons, U S Gypsum Co, Gypsum Queen, Hantsport
HEMPSEED—133 cs, Corn Exchange Bank & Trust Co, George Uhler, Trieste
HERBA DROSERAL—1 cs, Ernst Bischoff Co, American Packer, Bremen
INSECTICIDES—8 dms, Geary Chemical Co, Algonquin Victory, Rotterdam
IRISH MOSS—50 bls, T M Duche & Sons Co, De Grasse, Havre
50 bls, Jacques Wolf & Co, De Grasse, Havre
25 bls, J E Bernard & Co, Frierfjord, Oslo
POWDER—20 bgs, T M Duche & Sons Co, De Grasse, Havre
KARAYA GUM—133 bgs, T M Duche & Sons Co, Hoegh Silvercrest, Bombay
66 bgs, Pan American Trust Co, Hauffalize, Bombay
333 bgs, Jacques Wolf & Co, President Buchanan, Bombay
184 bgs, Dodwell & Co, President Buchanan, Bombay
492 bgs, Paul A Dunkel & Co, President Buchanan, Bombay
LAVENDER FLOWERS—40 bgs, S B Penick & Co, President Buchanan, Marseilles
40 bgs, Peek & Velsor, Inc, President Buchanan, Marseilles
LEMON OIL—150 cs, Norda Essential Oil & Chemical Co, Mormacmar, Santos
LICORICE ROOT—75 bls, Hoegh Silvercrest, Latakia
LOCUST BEAN GUM—600 bgs, Innis, Speiden & Co, Gudrum Maersk, Rotterdam
10 cks, Paul A Dunkel Co, Gudrum Castle, Rotterdam
50 bgs, Innis, Speiden & Co, Executor, Genoa
1,024 bgs, Stein, Hall & Co, Asbjorn, Lisbon
LAEMIS KOETJING—7 cs, S B Penick & Co, Dolerdyk, Rotterdam
MANGANESE ORE—1,120 tons, Chase National Bank, African Grove, Luanda
MANGROVE BARK—1 bg, Pablo Calvet & Co, Cristobal, Cristobal
1,176 bgs, First National Bank of Boston, Leena Dan, Esmeraldas
510 bgs, Pablo Calvet & Co, Rio Orinoco, La Guayra
MEDICINAL HERBS—10 bls, Intersped Inc, Algonquin Victory, Antwerp
10 bls, Intersped Inc, Dolerdyk, Antwerp
SEED—200 bls, S B Penick & Co, Pioneer Tide, Hong Kong
MENTHOL CRYSTALS—35 cs, Geismar & Co, Brazil, Santos
MICA—50 cs, Ford Radio & Mica Corp, Steel Advocate, Calcutta
3 cs, Perfection Mica Co, Steel Advocate, Calcutta
123 cs, Asheville Schoonmaker Mica Co, Steel Advocate, Calcutta
311 cs, Gillespie-Rogers-Pyatt, Inc, Steel Advocate, Calcutta
581 cs, Otto Gerdau Co, Steel Advocate, Calcutta
65 cs, United Mineral & Chemical Corp, Gerd, Rio de Janeiro
40 cs, Manufacturers Trust Co, Gerd, Rio de Janeiro
14 cs, K S Drake & Co, Gerd, Rio de Janeiro
16 cs, Cosmopolitan Trading Co, Gerd, Rio de Janeiro
60 cs, Sylvania Electric Prod, Inc, Gerd, Rio de Janeiro
224 cs, Cornelius & Suhr Co, Steel Advocate, Calcutta
32 cs, Asheville Schoonmaker Mica Co, Steel Advocate, Calcutta
42 cs, James F Garneau Co, Steel Advocate, Calcutta
BLOCKS—67 cs, Sigbert Loeb Co, American Packer, London
32 cs, American Mica Works Corp, American Packer, London
MINERAL ORE—186 dms, African Metals Corp, African Grove, Matadi
MONTAN WAX — 1,975 bgs, Redemann & Co, American Clipper, Bremen
MYROBALANS—421 bgs, Manufacturers Trust Co, Hoegh Silvercrest, Marmagoa
494 bgs, River Plate Import & Export Corp, President Buchanan, Bombay
NAPHTHALENE — 983 bgs, Algonquin Victory, Antwerp
2,393 bgs, Charles Page & Co, Gudrun Maersk, Rotterdam
NIGER GUM—106 bgs, John Holt & Co, Fernland, Lagos
187 bgs, Chicle Development Co, African Grove, Lagos
NITRATE, SODIUM — 2,500,000 kilos, Guaranty Trust Co, Leena Dan, Tocopilla
OCHRE, POWDER—400 bgs, Asbjorn, Marseilles
OCOTEA CYMBARUM—9 dms, Fritzsche Bros, Inc, Mormaecmar, Santos
22 dms, Dodge & Olcott Co, Mormaecmar, Santos
ORIGANUM—65 bgs, Ionian Bank Ltd, Executor, Kalamata
ORTHOCRESOL — 10 dms, Guaranty Trust Co, American Packer, London
OURICURY WAX—112 bgs, J W Hanson Co, Mormaecmar, Salvador
112 bgs, Frank B Ross Co, Loide Uruguai, Bahia
OXGALL—9 cs, Van Gelder Fanta Corp, Brazil, Buenos Aires
7 cs, International Packers Commercial Corp, Brazil, Buenos Aires
10 tcs, Armour & Co, Brazil, Buenos Aires
2 bbls, Armour & Co, Brazil, Buenos Aires
6 cks, Charles Hollinshed Co, Mormaecmar, Buenos Aires
PALMAROSA OIL—3 dms, Volkart Bros, Hoegh Silvercrest, Bombay
PALM OIL—1,166 kilos, Balfour, Guthrie & Co, Fernland, Matadi
PATCHOULI OIL—7 dms, Norda Essential Oils & Chemical Co, American Packer, London
3 dms, East Asiatic Co, Inc, President Buchanan, Genoa
PEATMOSS—360 bls, Halfmoon Manufacturing & Trading Co, Noordam, Rotterdam
400 bls, Gastmeyer Inc, Noordam, Rotterdam
PEPPER, BLACK—959 bgs, Mincing Trading Co, American Clipper, London
240 bgs, American Clipper, London
480 bgs, Mincing Trading Co, American Clipper, London
375 bgs, Catz American Co, American Clipper, London
759 bgs, Mincing Trading Co, American Clipper, London
467 bgs, Catz American Co, Hoegh Silvercrest, Beirut
133 bgs, Balex Co, Inc, Hoegh Silvercrest, Beirut
150 bgs, Internatio Rotterdam Inc, Meredith Victory, Djibauti
160 bgs, Mincing Trading Co, President Buchanan, Cochin
160 bgs, Stern, Morgenthau & Co, President Buchanan, Genoa
238 bgs, Herbert Marmorek & Son, American Packer, London
160 bgs, International Rotterdam Inc, American Packer, London
80 bgs, Ayrton Metal Co, American Packer, London
160 bgs, Otto Gerdau & Co, American Packer, London
203 bgs, Otto Gerdau Co, Dolerdyk, Rotterdam
320 bgs, East India Trading Co, Hoegh Silvercrest, Bombay
160 bgs, Hoegh Silvercrest, Port Said
238 bgs, Joenssson & Cross, Inc, Hoegh Silvercrest, Beirut
132 bgs, Arthur S Dunn & Co, Hoegh Silvercrest, Beirut
1,170 bgs, Internatio Rotterdam Inc, Orente, Tandjong Priok
160 bgs, International Fertilizer & Chemical Corp, American Clipper, London
70 bgs, Trans-Oceanic Trading Co, Noordam, Rotterdam
WHITE—140 bgs, Arthur G Dunn & Co, Noordam, Rotterdam
PERU BALSAM—10 dms, Norda Essential Oil & Chemical Co, Cape Cod, Cristobal
PETIT GRAIN OIL—6 dms, Bush Aromatics, Inc, Brazil, Buenos Aires
PETROLEUM, CRUDE—107,464 bbls, Gulf Oil Corp, Gulftrade, Las Piedras
179,033 bbls, Esso Standard Oil Co, Esso Stockholm, Cartagena
121,785 bbls, Esso Standard Oil Co, Esso Scranton, Puerto La Cruz
POPPYSEED—50 bgs, Catz American Seed Co, Dolerdyk, Rotterdam
300 bgs, Levy & Levis Co, Gudrun Maersk, Rotterdam
100 bgs, M J Golombeck & Co, Gudrun Maersk, Rotterdam
100 bls, Louis Furth Inc, Noordam, Rotterdam
POTASH SALTS—10 cs, A Gusmer Inc, American Packer, London
QUEBRACHO EXTRACT—1,107 bgs, Carl M Loeb Rhoades & Co, Brazil, Buenos Aires
8,125 bgs, Imex Co, Mormacmar, Buenos Aires
12,244 bgs, Imex Co, Mormacmar, Buenos Aires
5,648 bgs, Imex Corp, Gerd, Buenos Aires
QUININE SULPHATE—9 cs, Bank of New York, Havmann, Hamburg
RADIUM ELEMENT—1 cs, Radium Chemical Co, Houffalize, Antwerp
SANDALWOOD—150 bgs, George Lueders & Co, President Buchanan, Bombay
SEAL OIL—56 dms, Atlas Refining Co, Fort Amherst, St Johns
SEEDLAC—200 bgs, MacLac Co, Steel Advocate, Calcutta
250 bgs, Mantrose Corp, Steel Advocate, Calcutta
350 bgs, William Zinsser & Co, Steel Advocate, Calcutta
100 bgs, James B Day, Steel Advocate, Calcutta
100 bgs, Schwab Bros Corp, Steel Advocate, Calcutta
335 bgs, Gillespie-Rogers-Pyatt Co, Drente, Bangkok
700 bgs, Ralli Bros Corp, Steel Advocate, Calcutta
SHARK LIVERS—11 dms, Distillation Products Corp, Cristobal, Cristobal
OIL—750 dms, Arista Oil Products Co, Frierfjord, Alesund
SHEEP GALL—2 cks, International Packers Commercial Corp, Brazil, Buenos Aires
1 trc, Armour & Co, Brazil, Buenos Aires
SHELLAC—200 bgs, Schwab Bros Corp, Steel Advocate, Calcutta
50 bgs, C L Camerick & Co, Steel Advocate, Calcutta
450 bgs, Ralli Bros Corp, Steel Advocate, Calcutta
250 bgs, Limpex, Inc, American Clipper, London
100 bgs, William Diehl & Co, Americn Packer, London
137 bgs, International Fertilizer & Chemical Corp, American Packer, London
200 bgs, Horvath, Inc, American Packer, London
80 bgs, William Zinsser & Co, American Packer, London
54 cs, F H Paul & Stein Bros, Inc, Noordam, Rotterdam
7 dms, F H Paul & Stein Bros, Inc, Noordam, Rotterdam
SODIUM GLYCEROPHOSPHATE—1 cs, Karr, Ellis & Co, American Packer, London
STEARIC ACID—1 bg, Burroughs Wellcome & Co, American Packer, London
TANKAGE—1,504 bgs, International Packers Commercial Corp, Gerd, Rosario
TAPIOCA FLOUR—3,500 bgs, Bankers Trust Co, Gerd, Itajai
398 bgs, A Ordem Co, Gerd, Itajai
52 bgs, American Key Products Corp, President Buchanan, Singapore
THYME LEAVES—95 bgs, The Arles Co, President Buchanan, Marseilles
75 bgs, Becker Mayer Seed Co, President Buchanan, Marseilles
TIN—7,935 ingots, African Metals Corp, Houffalize, Antwerp
11,200 slabs, Reconstruction Finance Corp, President Buchanan, Penang
5,910 ingots, Tuthill & Co, Noordam, Rotterdam
1,438 ingots, Ayrton Metal Co, De Grasse, Havre
1,786 ingots, Mining Equipment Corp, Dolerdyk, Rotterdam
1,471 ingots, Mining Equipment Corp, Dolerdyk, Rotterdam
23,816 pigs, Reconstruction Finance Corp, African Grove, Matadi
97 pigs, Chas Gillan & Co, Pioneer Tide, Hong Kong
TRIBUTYL PHOSPHATE—1 dm, Wallach Gracer Export Corp, American Counselor, Antwerp
TUNG OIL—235 tons, Pacific Vegetable Oil Corp, Mormacmar, Buenos Aires
TUNGSTEN SCRAP—34 dms, J W Hampton, jr, & Co, Anna Odland, Yokohama
UMBER, POWDERED—100 bgs, Chase National Bank, Exmouth, Larnaca
VALONEA CUPS—1,774 bgs, Barkey Importing Co, Exmouth, Izmir
1,328 bgs, River Plate Import & Export Corp, Exmouth, Izmir
VANILLA BEANS—44 cs, Maurice Carasso & Co, President Buchanan, Marseilles
VINYL CHLORIDE COMPOUND—1 dm, Bakelite Corp, Mormacwave, Stockholm
WHALE LIVER OIL—46 dms, National City Bank, Igadi, Yokohama
WHITING—1,600 bgs, Pluess Stauffer, North American Co, Algonquin Victory, Antwerp
American Co, Algonquin Victory, Antwerp
700 bgs, Davies Turner & Co, American Packer, London
6,100 bgs, Nicholas H Weitzner Co, Houffalize, Antwerp
100 bgs, Charles B Chrystal Co, American Clipper, London
WOLFRAM ORE—184 bgs, Mercantile Metal & Ore Corp, Pioneer Tide, Hong Kong
5,926 bgs, Bank of China, Pioneer Tide, Hong Kong
WOOL GREASE—154 dms, American Counselor, Antwerp
20 dms, Hummel Chemical Co, American Forwarder, Manchester
12 dms, J J Gavin & Co, American Forwarder, Manchester
150 dms, Hummel Chemical Co, Dolerdyk, Antwerp
WAX—20 bbls, Duke Labs, Inc, American Packer, London

Baltimore

CARAWAYSEED—200 bgs, William G Scarlett & Co, Gudrun Maersk, Rotterdam
MANGANESE ORE—7,500 tons, Carnegie Illinois Steel Corp, Robin Locksley, Durban
600 tons, Frank Samuel & Co, Steel Advocate, Calcutta
SHELLAC—20 cs, F H Paul & Stein Bros, Inc, Dolderdyk, Rotterdam
SIENNA—125 bgs, Mineral Pigments Corp, Executor, Leghorn

Boston

ASCORBIC ACID—20 cs, Dolerdyk, Antwerp
BITUMEN SOLUTION—4 dms, Furness Withy & Co, American Clipper, London
BONES—1,651 bgs, International Packers Commercial Co, Mormacmar, Montevideo
CASEIN—500 bgs, American Cyanamid Co, Gerd, Buenos Aires
MICA—100 cs, The Macallen Co, Steel Advocate, Calcutta
102 cs, Otto Gerdau Co, Steel Advocate, Calcutta
29 cs, Eugene Munsell & Co, Gerd, Rio de Janeiro
SHELLAC—20 cs, F H Paul & Stein Bros, Algonquin Victory, Hamburg

Jacksonville

HOOF AND HORN MEAL—1,176 bgs, Armour & Co, Gerd, Montevideo
1,053 bgs, Ellert & Co, Gerd, Buenos Aires

Los Angeles

BONE MEAL—6,000 bgs, Near East Superintending Co, President Buchanan, Alexandria
UMBER, POWD—9 bbls, President Buchanan, Leghorn

New Orleans

PEPPER, BLACK—160 bgs, Mincing Trading Co, American Clipper, London
SEEDLAC—200 bgs, Mac Lac Co, Steel Advocate, Calcutta
SHELLAC—31 bgs, William Zinsser & Co, Steel Advocate, Calcutta

Norfolk

COCOA RESIDUE—1,416 bgs, Algonquin Victory, Rotterdam
1,088 bgs, Monsanto Chemical Co, Algonquin Victory, Rotterdam
KYANITE ORE—395 tons, Charles Taylor & Son, Steel Advocate, Calcutta
UMBER, RAW—794 bgs, J Lee Smith & Co, Exmouth, Larnaca

Philadelphia

BLUEING—220 cs, Wm J Jones Co, American Shipper, London
BONE GRIST—995 bgs, Gdynia, Buenos Aires
CANARYSEED—276 bgs, Transatlantic Commodities Corp, Exceller, Tangier
EUPARAL—2 cs, Carson M Simon Co, American Chief, Manchester
GLYCERIN—528 bbls, Harshaw Chemical Co, American Shipper, London
GYPSUM, CRUDE—6,293 tons, U S Gypsum Co, Gypsum King, Hantsport
LEAD—1,997 bars, American Metal Co, Leena Dan, Callao
MANGANESE ORE—2,500 tons, E J Lavino & Co, Dagestan, Vizagapatan

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PETROLEUM, CRUDE—107,626 bbls, Gulf Oil Corp, Gulfhawk, Las Piedras
121,595 bbls, Atlantic Refining Co, American Importer, Pamatacual
184,022 bbls, Gulf Oil Corp, Ras-al-Ardh, Mena Al Ahmadi
CRUDE—110,108 bbls, Atlantic Refining Co, Brunswick
166,800 bbls, Socony Vacuum Oil Co, Nashbulk, Mena-Al-Ahmadi
123,432 bbls, Socony Vacuum Oil Co, Stoney Point, Covenas
103,000 bbls, Esso Export Corp, Wilchief, Aruba
115,305 bbls, Gulf Oil Corp, Gulfpass, Las Piedras
115,897 bbls, Atlantic Refining Co, Atlantic Mariner, Puerto la Cruz
90,514 bbls, Atlantic Refining Co, Atlantic Belgium, Las Piedras
147,938 bbls, Gulf Oil Corp, Gulfpride, Puerto la Cruz
123,618 bbls, Gulf Oil Corp, Gulfwing, Puerto la Cruz
198,522 bbls, Gulf Oil Corp, Jahra, Mena-Al-Ahmadi
112,478 bbls, Gulf Oil Corp, Gulfmoon, Mena-Al-Ahmadi
199,275 bbls, Texas Oil Co, Pennsylvania, Pamatacual
QUEBRACHO EXTRACT—1,015 bgs, Imex Co, Mormacmar, Buenos Aires
SODIUM NITRATE—5,511,500 lbs, Guaranty Trust Co, Leena Dan, Tocopilla
WHITING—2,000 bgs, Nicholas H Weitzner Co, Black Eagle, Antwerp
2,400 bgs, Nicholas H Weitzner & Co, Alwaki, Antwerp

San Francisco

AGAR—2 bls, D B Berelson & Co, California Bear, Hong Kong
5 cs, Pacific Mutual Sales, Inc, General W H Gordon, Yokohama
CAMPHOR, REFINED—15 cs, National City Bank, Arnold Maersk, Kobe
CASEIN—300 bgs, Wilbur Ellis Co, P & T Forester, Buenos Aires
CHINESE MEDICINE—165 pkgs, Tai Yick Trading Co, California Bear, Hong Kong
COPAL GUM—30 bskts, Harrison & Crosfield, Ltd, Raki, Macassar
122 bskts, Henry W Peabody & Co, Raki, Macassar
176 bskts, Internatio Rotterdam, Inc, Raki, Sourabaya
COPRA—200 tons, Pacific Vegetable Oil Corp, China Transport, Legaspi
950 tons, El Dorado Oil Works, China Transport, Romblon
500 tons, Durkee Famous Foods, Inc, Mongabarra, Jose
500 tons, El Dorado Oil Works, Mongalbarra, Cebu
300 tons, El Dorado Oil Works, Edwin Abbey, Davao
500 tons, Edwin Abbey, Subigao
300 tons, Pacific Vegetable Oil Co, Edwin Abbey, Mercedes
300 tons, El Dorado Oil Works, Edwin Abbey, Iloilo
155 tons, El Dorado Oil Works, Edwin Abbey, Infanta
500 tons, Pacific Vegetable Oil Co, Joplin Victory, Cebu
200 tons, Joplin Victory, Jola
1,250 tons, El Dorado Oil Works, Joplin Victory, Zamboanga
EUCALYPTUS LEAVES AND BRANCHES—28 bls, Sonoma, Melbourne
OIL—10 dms, C F Ten Eyck & Co, Sonoma, Melbourne
FERTILIZER—615 bgs, Bank of California, Radja, Buenos Aires
LEAD CONCENTRATES—1,040 tons, American Smelting & Refining Co, Sonoma, Port Burnie
COPPER DROSS—13,843 bgs, American Smelting & Refining Co, Sonoma, Townsville
MACE—14 cs, Catz American Co, Raki, Macassar
MEAT MEAL—1,000 bgs, Wessel, Duval & Co, P & T Forester, Buenos Aires
PALM NUTS—6 cs, Bodger Seeds, Ltd, Sonoma, Sydney
PEATMOSS—545 bls, East Asiatic Co, Erria, Copenhagen
PEPPER, BLACK—156 bgs, Raki, Tandjong Priok
PIMIENTO—125 bgs, Hismoco American Co, Paraguay, Antwerp
SHELLAC—64 cs, China Transport, Hong Kong
SHOE POLISH—600 ctns, Kiwi Polish Co, Sonoma, Melbourne
SILVER LEAD ORE—1,426 bgs, American Smelting & Refining Co, Sonoma, Townville
247 dms, American Smelting & Refining Co, Sonoma, Townville
SKIM CREAM AND TOILET WATER—16 cs, Swedish Import & Export Corp, Paraguay, Gothenburg
SPOTTED GUM—6 pcs, East Asiatic Co, Sonoma, Sydney
TANKAGE—6,860 bgs, International Packers Commercial Co, P & T Forester, Buenos Aires
9,107 bgs, Wilbur Ellis Co, Radja, Buenos Aires
TAPIOCA FLOUR—2,240 bgs, Stein, Hall & Co, Raki, Tandjong Priok
TIN—100 ingots, Fred H Lenway Co, President Wilson, Hong Kong
VARNISH GUMS—80 bgs, Henry W Peabody & Co, China Transport, Manila
WAX CANDLES—2 cs, Paraguay, Antwerp

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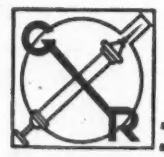

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Obituaries

Joseph F. Bough

Joseph F. Bough, retired treasurer of the Orbis Products Corporation, essential oils and chemicals, New York, died October 16 at his home in Rye, N. Y. He was seventy-three years old.

Mr. Bough had founded the essential oils house in 1918 after several years with the lubricating department of the Standard Oil Company of New Jersey.

Brian R. Muirhead

Brian R. Muirhead, vice-president and treasurer of the Universal Oil Products Company, Chicago, died October 20 on a train en route to Detroit. A veteran of more than twenty-five years in the petroleum industry, Mr. Muirhead had joined the Universal organization in 1945 as treasurer, and was elected vice-president several months later. He had previously been associated with the Arkansas Natural Gas Corporation, Shreveport, La.

Joseph H. Senior

Joseph H. Senior, retired director in charge of domestic sales of the Standard Oil Company (New Jersey) and former president of the Standard Oil Company of Pennsylvania, died October 16 at his home in Langhorne, Pa. He was seventy-nine years old.

Mr. Senior had been associated with the oil industry for forty-eight years at the time of his retirement in 1933. He had served as president of the Caloric Company; the Pan-American Oil Export Corporation; Penola, Inc.; Standard Oil Company of Brazil; Standard Oil Company of Cuba, and the West India Oil Company, and as director and vice-president of the Creole Petroleum Corporation and director of the Ethyl Gasoline Corporation.

Samuel H. Wallace

Samuel H. Wallace, managing director of Caltex (Africa), Ltd., a subsidiary of the California-Texas Oil Company, died October 9 in Capetown, South Africa. He was sixty years old. Mr. Wallace had entered the oil industry in 1913 with the Texas Company, and served as superintendent of the African division of Texaca Export and as assistant to the manager of the export department of the Texas Company. He had served as managing director of Caltex (Africa), Ltd., since 1941.

Lemuel R. Woods

Lemuel R. Woods, president of the Gulf Fertilizer Company, Tampa, Fla., died on October 18. He was eighty years old. Mr. Woods founded the Manatee Fertilizer Company at Palmetto, Fla., in 1903, and two years later changed its name to the Gulf Fertilizer Company and moved it to Tampa.

George S. Bays, former chief research engineer of the Stanolind Oil & Gas Company, died October 19 at his home in Tulsa, Okla. He was sixty years old. An early advocate of conservation practices in oil and gas production, Mr. Bays had also been associated with the Magnolia Petroleum Company during his career.

Dr. Junius S. Cates, agronomist and agricultural writer, died October 18 at his home in Arlington, Va. He was seventy-two years old.

Douglas B. Hobbs, in charge of motion pictures, educational and technical information activities of the public relations and advertising department of the Aluminum Company of America, died October 11 at the Waldorf-Astoria hotel, New York, of a heart attack. He was forty-nine years old.

Howard F. Gilbert, safety director of the American Cyanamid Company, New York, died October 17 in New York hospital. He was forty-nine years old. Mr. Gilbert had been associated with the company for twenty-two years.

John B. McKillen, former assistant manager of the foreign department of the Foster-Milburn Company, drug manufacturer, Buffalo, N. Y., died recently. He was seventy-nine years old. Mr. McKillen had been associated with the company for twenty years prior to his retirement.

Amos C. Miller, an organizer and former first vice-president and counsel of the Firestone Tire & Rubber Company, died October 18 in Wesley Memorial hospital, Chicago. He was eighty-two years old.

Frank H. Wilberding, former sales manager of the Ohio Varnish Company, died October 16 in Cleveland. He was seventy years old.

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Current Prices

—*Continued from page 33*

Zinc oxide, pigment, dom., acicular, bgs., c.l., ship't point, frt.			
alld	lb.	.11 -	—
l.c.l., works	lb.	.11¼-	—
American process, com'l, lead-free, bgs., c.l., ship't point, frt. alld	lb.	.11 -	—
l.c.l., works	lb.	.11¼-	—
leaded, 5%, bgs., c.l., ship't point, frt. alld	lb.	.11 -	—
l.c.l., works	lb.	.11¼-	—
35%, bgs., c.l., ship't point, frt. alld	lb.	.12 -	—
l.c.l., works	lb.	.12¼-	—
50%, bgs., c.l., ship't point, frt. alld	lb.	.12½-	—
l.c.l., works	lb.	.12¾-	—
French process, com'l, lead-free, bgs., c.l., ship't point, frt. alld	lb.	.13¼-	—
l.c.l., works	lb.	.13½-	—
green seal, bgs., c.l., ship't point, frt. alld	lb.	.12¾-	—
l.c.l., works	lb.	.13 -	—
red seal, bgs., c.l., ship't point, frt. alld	lb.	.12¼-	—
l.c.l., works	lb.	.12½-	—
white seal, bgs., c.l., ship't point, frt. alld	lb.	.13¼-	—
l.c.l., works	lb.	.13½-	—
USP, ctns., c.l., ship't point, frt. alld	lb.	.14¼-	—
l.c.l., same basis	lb.	.14½-	—
Zinc oxide Pac. coast prices, etc., higher; bbl prices ¼c. higher than bgs.			
Phenolsulphonate, NF, gran., bbls., dms	lb.	.28 -	.29
powd. bbls.	lb.	.31 -	.32
Resinate, fused, 1% Zn, dms., frt. alld.	lb.	.20 -	—
precip., dms., frt. alld	lb.	.22 -	—
Silicofluoride, bbls., works	lb.	.10 -	.10½
Stearate, tech., USP, ctns., c.l.	lb.	.34 -	—
ton lots	lb.	.35 -	—
less ton lots	lb.	.36 -	—
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld	100 lbs.	4.55 -	—
l.c.l., same basis	100 lbs.	4.95 -	—
flake, 25½%, Zn, bgs., c.l., works	100 lbs.	5.50 -	—
l.c.l., works	100 lbs.	5.70 -	—
Zinc sulphate, powd., 36% Zn., bgs., c.l., dlvd., same basis	100 lbs.	7.00 -	7.40
l.c.l., same basis	100 lbs.	7.40 -	7.75
Zinc sulphate in bbls. 40c. higher			
USP, gran., dms	lb.	.22 -	.22½
Sulphide, pure, bgs., c.l., frt. alld	lb.	.13¼-	—
l.c.l., works	lb.	.13½-	—
Barium pigment, bgs., c.l., dlvd.	lb.	.08 -	—
l.c.l., works	lb.	.08¼-	—
Calcium, pigment, bgs., c.l., dlvd	lb.	.08 -	—
l.c.l., works	lb.	.08¼-	—
Luminescent pigment, frt. alld.	lb.	1.00 -	3.00
Magnesium pigment, bgs., c.l., dlvd	lb.	.08 -	—
l.c.l., dlvd	lb.	.08¼-	—
Zinc sulphide and pigment, Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs.			
Yellow (see Yellow, zinc)			
Zinc-ammonium chloride, bgs., c.l., works	100 lbs.	7.00 -	—
l.c.l., bags, works	100 lbs.	7.40 -	—
Zinc-cadmium sulphide, fluorescent, cns., frt. alld	lb.	2.00	2.80
Zinc-calcium resinate, dms., c.l., works	lb.	.1180-	.1360
l.c.l., same basis	lb.	.1220-	.14
Zinc-formaldehyde sulphoxalate, basic, dms., works	lb.	.21½-	—
normal, dms., works	lb.	.43 -	—
Zircon (see Zirconium silicate).			
Zirconium acetate, 13% sol. ZrO_2, bbls., works	lb.	.21¼-	—
Carbonate, basic, cake, bbls., works	lb.	.30½-	—
Hydride, cns., works	lb	7.00 -	—
Nitrate, dms., works	lb.	1.75 -	—
Oxide, 98½-99% white, grd., bbls. or bags, works	lb.	1.50 -	—
lump, electric-fused, bgs., works	lb.	.44 -	—
5 tons, works	lb.	.44½-	—
1 ton or less, works	lb.	.45 -	.48
milled, electric-fused, bgs., c.l., works	lb.	.59 -	—
5 tons, works	lb.	.59½-	—
1 ton or less, works	lb	60 -	.63
Oxychloride, cryst., ctns., 5 tons, works	lb	.29½-	—
Zirconium silicate, granular, bgs., c.l., works	lb.	.03¼-	.03¾
10 tons, works	lb.	.03½-	.04
5 tons, works	lb.	.04 -	—
1 ton or less, works	bl.	.04¼-	.04¾
milled, bgs., c.l., works	lb.	.04¾-	—
5 tons, works	lb.	.05¼-	—
1 ton or less works	lb.	.05¾-	.06¾
refined, bgs., c.l., works	lb.	.11 -	—
works	lb.	.11 -	—
5 tons, works	lb.	.11½-	—
1 ton or less, works	lb.	.12 -	.16
Sulphate, cryst., ctns., c.l., works	lb.	.37½-	—
5 tons, works	lb.	.38 -	—
1 ton or less, works	lb.	.38½-	.39

Chemical Workers Weekly Earnings Increased in July

Weekly earnings of factory workers in chemical and related fields showed a slight increase in July as compared with May and June. A breakdown of the weekly earnings for the chemical and allied industries follows:—

	Weekly July, 1949	Weekly June, 1949	Weekly May, 1949
Chemical and allied products	$61.16	$60.89	$59.89
Drugs and medicine	56.48	57.15	56.68
Fertilizers	46.84	46.58	46.67
Fibers, synthetic	55.13	54.63	55.32
Industrial inorganic chemicals	64.00	65.78	62.59
Industrial organic chemicals	61.43	60.56	60.09
Paints, pigments and fillers	59.31	59.76	59.22
Petroleum refining	76.64	74.73	75.21
Plastics, except synthetic rubber	59.78	59.68	58.31
Rubber, synthetic	68.21	67.07	67.02
Soap and glycerin	67.56	66.46	65.37
Vegetable, animal oils and fats	52.92	52.13	51.30

U.S. Revenue Returns Increased in August

Th Bureau of Internal Revenue of the Treasury Department has reported taxes collected during August, 1949, as compared with similar data for August, 1948. Among the statistics presented are the following:—

	August 1949	August 1948
Coconut and other vegetable oils processed	$1,865,961.06	$2,174,244.28
Distilled spirits, domestic, excise tax	104,051,305.45	100,003,671.62
Distilled spirits, imported, excise tax	9,862,382.36	8,058,139.42
Gasoline	49,116,140.10	42,972,349.98
Lubricating oils	10,268,253.86	6,401,967.77
Matches	945,734.83	553,428.53
Narcotics, including marihuana and special taxes	38,399.34	54,999.63
Oleomargarin, including special taxes	3,039,998.89	1,657,255.10
Silver bullion sales or transfers, stamp tax	6,661.17	22,037.89
Sugar	9,268,241.21	8,032,013.99
Toilet preparations, excise tax	7,807,221.73	7,506,518.49
Transportation of oil by pipeline	1,811,875.04	1,497,405.15

Armstrong Cork Advances Three

Armstrong Cork Company, Lancaster, Pa., has appointed Roger Hetzel general sales manager of its glass and closure division, to succeed Roy A. Horning, who has been named general production manager. P. S. Holmquest, formerly assistant manager of the metal and molded cap department has been named to succeed Mr. Hetzel as assistant sales manager of the division.

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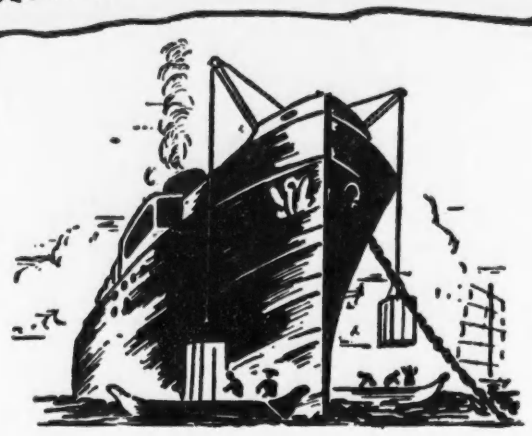
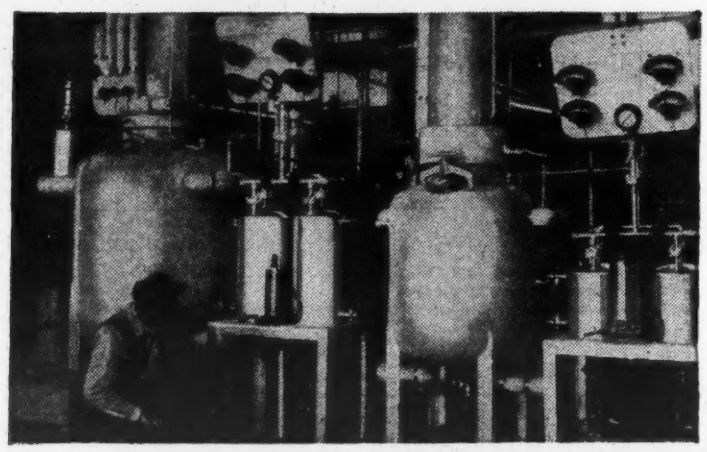


Partial view of Distillation Room.



Partial view of high vacuum fractionation department.

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Botanical Drugs, Spices, Gums

Black pepper was stronger last week and white pepper advanced sharply. Uncertainty in the Chinese markets was reflected in higher cassia prices. The overall short vanilla bean crop led to a rise in Mexican beans and an increase in Bourbon quotations was felt imminent. Both African and Jamaica ginger were down, and Zanzibar cloves were off fractionally. Siauw No. 1 mace was reduced 2c. per pound and West Indian material was down a full cent. Other seeds and spices were off fractionally except tumeric and Ceylon cinnamon which declined from 1c. to 2c. per pound. The index was unchanged, remaining at 185.4.

Vanilla beans were strong by virtue of the short supply and trading was reported more active in the past week than over recent months. New developments in the Bourbon vanilla bean market were the holding of prices at the source at levels 75 cents above those of the previous week, and the policy shippers were adopting of not accepting FDA release terms, and the requirement that payment for beans be made before they leave Madagascar ports. Estimated total Bourbon bean supply, including the 1950 crop, was reported as not in excess of 400 tons. Buyers were proceeding with caution.

Cape aloe and arabic gums were moving in an easier market. Most quotations were unchanged, but it was felt that prices could be shaded. Laurel leaves were down ½ cent on Portuguese material and French thyme was similarly off. Ergot prices were nominal with no material available.

Heavy European buying of ipecac root in the South American markets had curtailed offerings seriously and was reflected in a firmer market tone domestically. Low stocks on rhubarb root together with uncertain replacement from the confused Chinese primary markets, were felt likely to soon lend a stronger tone to this currently quiet item.

Cascara sagrada bark and senega root were in a strong market position, but holding their own pricewise. The pepper market was stronger, and there were reports of the possibility of the Indian government putting a tax on pepper, probably derived from the fact that that government has been empowered to tax exports of vegetable oils, oilseeds, vanaspati, shellac, and other agricultural products.

Balsams

Peru Balsam—The price position of this item last week held to the lower level established the previous week, when the market declined 5 cents per pound, bringing the range of current quotations to 85 cents to $1 per pound. Trading was reported as quiet and steady, essentially unchanged from the condition which has characterized the market over recent weeks.

Barks

Cascara Sagrada—Following the recent advance in the price of this bark, bringing it to 28 cents per pound, the market appeared to settle at that figure and was reported last week to be holding a firm position.

Beans

Vanilla Beans—Late advices from Madagascar held prices on the primary market at some 75 cents higher than those which prevailed the previous week. There was little inclination to sell, in view of the short supply situation. Furthermore, shippers were reported not accepting the terms of "passing" by the Food and Drug Administration in the United States, and were requiring payment in advance of shipment. The demand for payment before beans leave Madagascar, and the attitude of shippers with respect to FDA release, caused buyers to adopt a policy of caution with respect to purchasing, being careful to place orders only with those firms on whom they felt they could rely with respect to the quality of shipments as made.

Available stocks, including the 1950 crop, were said to be not in excess of 400 tons, which must last until the Spring of 1951. Hence it was coming to be realized throughout the trade that there was quite an insufficiency of vanilla bean supply because of the Madagascar situation, and also because of the short Mexican vanilla bean crop in the 1949-50 season.

Business in the last two weeks was reported considerably more active than in recent weeks, and the increased activity, together with the short supply position, tended to make the market stronger, and any price developments were expected to break upward rather than in a downward direction. Current quotations on Bourbon beans stood at $3 to $3.75 per pound, while Mexican whole beans were quoted in the range of $4 to $4.50 per pound. Mexican cuts were correspondingly quoted in the range of $3.75 to $4 per pound. Tahitian beans were virtually not to be had at any price. Accordingly, on the domestic market Bourbon beans about held their own, pricewise, with increased quotations apparently imminent, while Mexican beans advanced from 15 to 25 cents per pound.

Flowers

Calendula—Supplies on hand were said to be largely carryover stocks from last year, and foreign purchases of the item were expected to be light. Demand was slow and trading limited to small quantities which moved under a firm price position.

Saffron—Mexican material in bales was reported firm at 95c. to $1 per pound, with the market described as steady. Spanish material where available was priced at $17 to $18 per pound.

Gums

Aloes—The general range of price quotations in this market seemed to be within the range of 21c. to 23c. per pound, but in view of the softer tone in this market over recent weeks, the rumor was that business could be done in limited quarters at 20c. to 21c. per pound.

Arabic—Arrivals last week totaled 2,235 bags, and recent arrivals have been substantial. This may in part account for the rather soft tone currently prevailing in the market, despite the potentially stronger market situation that appears to be developing in the Sudan. Prices for first quality material were well held last week, although it was reported that sub-

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Drugs

None

Other Articles

Cassia, Canton, 1c. per lb.
Saigon, 1½c. to 2c. per lb.
Honan, 2c. to 2½c. per lb.
Yunnan, 1c. to 3c. per lb.
Pepper, black, spot, 1c. per lb.
October, afloat, 3c. per lb.
white, 15c. per lb.
Vanilla beans, Mexican, whole, 15c. per lb.

Prices Reduced

Drugs

Fenugreek, Indian, ½c. per lb.
Ginger, African, 1c. per lb.
Jamaica, No. 3, 2c. per lb.
Thyme, French, ½c. per lb.

Other Articles

Anise, Mexican, ½c. per lb.
Caraway seed, Dutch, ½c. per lb.
Celery seed, French, ½c. per lb.
Cinnamon, Ceylon, No. 2, 1½c. per lb.
Cloves, Zanzibar, ½c. per lb.
Cumin, all grades, ½c. per lb.
Laurel, Portuguese, 1c. per lb.
Mace, Siauw, No. 1, 2c. per lb.
West Indian, 1c. per lb.
Mustard, English, yellow, ½c. per lb.
Nutmegs, West Indian, spot, ½c. per lb.
futures, 1c. per lb.
Poppy seed, Dutch, ½c. per lb.
Tumeric, Alleppey, 2c. per lb.
Madras, 1c. per lb.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	Last year
185.4	185.4	185.1	201.8

(*For Current Prices see Page 9*)

Imports Detained by FDA

Week Ended October 14

New York

Arnica flowers, 12 bags; filthy.
Caraway seed, 341 bags; filthy and damaged.
Cassia, 300 bales; filthy.
Cassia fistula, 18 bags; filthy.
Celery seed, 1,697 bags; filthy.
Cloves, 327 bags; filthy.
Coriander seed, 1,950 bags; filthy.
Cumin, 112 bags; filthy.
Karaya, 90 bags; filthy.
Orange flowers, 8 bales; filthy.
Pepper, black, 1,127 bags; filthy.
Psyllium seed, 121 bags; filthy.
Rose buds, 82 bags; filthy.
Stramonium, 8 bales; filthy.
Thyme, 203 bags; not thymus vulgaris.
Tumeric, 123 bags; filthy.

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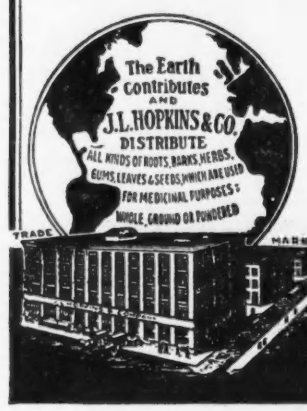

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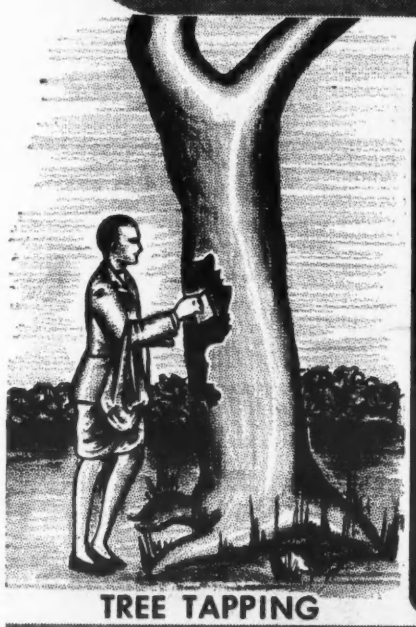

TREE TAPPING

GUMS:
GUM ARABIC
GUM ARABIC (Bleached)
GUM GHATTI
GUM KARAYA (Indian)
GUM TRAGACANTH
GUM EGYPTIAN
GUM LOCUST (Carob Flour)
QUINCE SEED
★
CASEIN
★
SPECIALTIES:
MENTHOL (Crystals)
★
TEA SEED OIL
★
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stantial firm offers might permit some fractional shading.

Herbs and Leaves

Laurel—Portuguese leaves were off 1c. per pound last week, being quoted at 13c. to 13½c. per pound. Trading last week was reported as still quiet, but improved over the lull that developed immediately after the devaluation program which tended to put a hush on all botanical business whether or not the particular item in question was from the silver area or not.

Thyme — French material was off ½c. per pound last week, being quoted at 16c. to 16½c. Trading was reported as quiet, but definitely improved over the level of operations in the weeks immediately past.

Miscellaneous

Ergot — Any price quotations on this item remained nominal at $3 per pound, and the item was virtually off the market because of the non-availability of supplies.

Roots

Goldenseal—Supplies of this item were generally regarded as not too plentiful in so far as the crop collection was concerned. However demand from abroad was said to be slow particularly in view of the dollar situation prevailing in Europe, and dealers were reporting slow trading. Prices held to their former range of $3.40 to $3.50 per pound.

Ipecac—Prevailing prices on this root were firmly quoted at $4.25 to $4:50 per pound on whole roots, while the powdered material was quoted in the range of $4.65 to $4.90 per pound. Quantities arriving from primary markets in the South American countries were said to be limited, due in large part to recent heavy European buying. In view of the present stocks and limited offerings, the market was expected to hold its firm tone in the coming weeks.

Rhubarb—Trading in this root was reported as quiet, and prices held unchanged. However, stocks were known to be low with not much spot material available. Accordingly, by virtue of the difficulty involved in obtaining replacements from China, any increased inquiry for the item was expected to result in stronger market conditions which accompany shortages, and probable increased prices.

Senega—While the market was regarded as continuing strong, the price position held firmly to the higher levels established one month ago, and no change appeared to be developing in the immediate future.

Tumeric — Alleppey material declined 2c. per pound last week, while quotations on Madras were off 1c. Current Alleppy quotations were at 38c. to 38½c. per pound, and Madras was quoted at 21c. to 21½c.

Seeds

Anise—Chinese star anise was shaded to 14½c. to 15c. per pound on a generally inactive market. All other grades held to previous quotations.

Caraway—Danish seed had virtually disappeared from the local market, and Dutch seed was slightly easier at 15c. to 15½c. per pound.

Celery — French seed was somewhat easier at 25c. to 25½c. per pound, and was reported to be a little cheaper for shipment.

Cumin—A lack of real demand forced a decline in quotations on all cumin seed, and the Moroccan article was being quoted at 17½c. to 18c. per pound, with similar prices prevailing for the Persian and Syrian material.

Dill—Indian seed was being quoted at purely nominal prices in New York, due to the fact that no seed had appeared in the market for some time.

Fennel—Indian seed was purely nominal at 13c. on the spot, with no material available to takers. French material was quoted at 12c.

Mustard—English yellow seed was somewhat easier at 12c. to 12½c. per pound for future shipment. Whether the lowered prices were indicative of a superior crop or were a result of the recent devaluation of English currency was a matter for conjecture on the New York market, but it was considered that the English seed prices were reflective of the poor crop and and high prices prevailing in Montana. However, all other grades held firm at previous quotations.

Poppy — Dutch material was slightly easier at 15½c. to 16c. per pound on a generally firm market. Polish and Turkish seed held to former quotations.

Spices

Allspice—Mexican allspice was reportedly scarce on the New York market, but no changes in quotations were noted. The

material was still quoted at 19c. to 19½c. per pound.

Cassia—The market for Chinese spice was considerably firmer during last week, with buyers and sellers keeping a sharp eye on the political situation in China and hazarding all kinds of guesses as to whether shipments would be curtailed or not. Canton rolls, selected, were higher at 12c. to 12½c. per pound, as were the extra selected broken rolls, at 11c. to 11½c. per pound. Also higher was: Saigon all medium, at 35c. to 36½c.; Saigon all thin at 41c. to 42c.; Saigon broken at 26c. to 28c.; Honan rolls, scraped, at 16c. to 16½c.; Honan scraped broken at 15c. to 15½c.; Honan unscraped at 14½c. to 15c.; Honan unscraped, broken, at 13½c. to 14; Yunan rolls, scraped, at 16c. to 16½c.; Yunan scraped, broken, at 15c. to 15½c.; Yunan rolls, unscraped, at 14c. to 14½c.; and Yunan rolls, unscrapped, broken, at 13c. to 13½c.

Cinnamon—Number 2 Ceylon spice was easier for the second week in a row, being offered on the New York market at 20½c. to 21c. per pound. Some hading in prices might be done on quantity orders, due to the inherent softness of the market at the present time.

Clove—Once again a slight decrease was noted in the market for Zanzibar cloves, which sold in New York last week for 22c. to 22½c. per pound. Madagascar spice, however, was holding at former levels, and shippers were reported to be experiencing some difficulty in obtaining material.

Ginger—African material was easier on the New York market at 46c. to 47c. per pound, and was reportedly available for shipment from London at 40c. to 41c. per pound. Number 3 Jamaica spice was also easier at 46c. to 46½c. per pound, while all other Jamaica grades, Cochin and Calicut spice held firm to former quotations.

Mace—Number 1 Siauw spice was off considerably in a soft New York market and was quoted at 90c. to 95c. per pound. Equally easy was the whole West Indian spice, which was quoted at 85c. to 86c. per pound.

Nutmeg—West Indian material took a fractional drop on spot to 29½c. to 30c. per pound last week, while the futures quotations on the same material dropped a full cent to 28c. to 29c. per pound. Prices

—Continued on page 77

Crude Drugs Survey Reveals Ample Stocks

—Continued from page 5

time OPD was in the southern mountains, collectors were striving to increase their stocks, especially those of witch hazel, lobelia, catnip, hellebore, clover, gelsemium, passion flower herb, mandrake, sassafras, star root, spearmint leaves and tops, wild lettuce, and spikenard.

The trend of buying prices was predominantly downward most of the season. If prices prevailing in October, 1948, be represented by 100.0, then those in force in October, 1949, stood at 72.8.

The following tabulation is a fairly definitive list of domestic botanicals the buying price of which in October, 1949, differed from that in effect in October, 1948:—

Advanced

Catnip herb and leaves	Prince's pine herb
Clover, white	Prickly ash berries
Deertongue leaves	Redwood bark
Elm bark, slippery	Samson snake root
Fringetree bark	Serpentaria root
Gravel plant	Spearmint herb
Hellebore root	Spikenard root
Liferoot plant	Squaw vine
Lobelia herb and leaves	Star root
Mullein leaves	Sumac, root bark
Pennyroyal leaves	Turkey corn
Peppermint herb and leaves	Wahoo, tree bark
	Witch hazel leaves
	Yellow root

Reduced

Adam and Eve root	Hydrangea root
Angelica root	Indian physic root
Balm of gilead buds	Indian turnip root
Bayberry, root bark	Jersey tea, root bark
Beth root	Ladyslipper root
Birch bark	Lemon balm leaves
Bitter root	Liverwort leaves
Blackberry root	Milkweed root
Black cohosh root	Motherwort herb
Black walnut leaves	Peach leaves
Black willow bark	Pennyroyal herb
Black haw, root bark tree bark	Pink root
Black Indian hemp root	Pleurisy root
Black willow bark buds	Poison oak leaves
Blue cohosh root	Poke root
Blood root	Prickly ash bark
Blueflag root	Pumpkin seed
Bone set herb and leaf	Raspberry leaves
Burleweed	Sarsaparilla root
Burdock root and seed	Sassafras, root bark
Butternut, root bark, leaves	Scullcap leaves, southern
Butterfly root	Shonny bark
Buttonsnake root	Stillingia root
Calamus root, stripped	Stargrass root
Chickweed herb	Stickweed leaves
Cranesbill root	Stone root
Deertongue leaves	Strawberry leaves
Elder flowers	Wahoo, root bark
Elecampane root	White pine bark
Fringetree bark	White willow bark
Gelsemium root	Wild cherry bark
Ginseng root, wild	Wild ginger root
Goldenseal root, herb	Wild indigo root
Ground ivy vine	Wild plum bark
Horse neetle root	Wild yam root
	Wintergreen leaves, herb
	Yarrow leaves and tops
	Yellow parilla root

Finally, a study of the October, 1949, buying prices of four major collectors in the south reveal the following number of changes made by each since October, 1948:—

	Higher	Lower	Unchanged
Dealer A	27	60	42
Dealer B	28	67	70
Dealer C	11	91	32
Dealer D	11	86	17

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Essential Oils, Other Aromatics

The market for essential oils was featured by two price advances and nine reductions last week, while the market for aromatic chemicals was without change. The reductions caused the weekly index to drop to 101.2, or 0.5 point.

Generally speaking, sellers felt that prices were stronger than they had been a short time back. Customers, it was said, were more willing to accept goods at current listings than to argue about price. For one thing, they were in greater need of many items now. They also were beginning to encounter tight supplies in a number of items and for that reason were happy if they could find goods available.

There were divergent opinions concerning Christmas buying. Some houses said that the turnover was not so good as had been expected but there were others who were satisfied with the present levels. A number of manufacturers have already taken about all they will need for seasonal manufacturing but others, particularly the smaller ones, were expected to go on buying in moderate quantities for several weeks more.

The effects of recent currency devaluations were still not clear. So far, the trade could see no drastic changes but most houses still wanted to wait a bit before coming to a definite opinion on what devaluation will mean to them individually.

Lemongrass and patchouli continued tight, despite a reduction in the latter oil. Spearmint, peppermint and dillweed, all new crop oils, were reported to be available in good amounts. Aromatics were generally in good supply and showing an increase in demand from cosmetics and perfume manufacturers.

Market Trends

Prices Advanced

Bois de rose oil, Brazil, 10c. per lb.
Lemon oil, USP, California, 10c. per lb.

Prices Reduced

Almond oil, sweet, 5c. per lb.
Cananga oil, native, 25c. per lb.
Caraway oil, NF, $1.10 per lb.
Dillweed oil, 35c. per lb.
Patchouli oil, 50c. per lb.
Peppermint oil, redistilled, USP, 5c. per lb.
Sassafras oil, artificial, 6c. per lb.
Savin oil, 50c. per lb.
Spearmint oil, 15c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
101.2	101.7	106.4	104.1

(*For Current Prices see Page 9*)

Essential Oils

Abies Siberica—The low side of the price range for this item remained unchanged during the past week but the high advanced from $3.10 to $3.25.

Almond—The sweet showed a drop in price last week from 75c. to 70c. Supply at the moment was said to be not large but it was pointed out that the pressing in France and Italy is scheduled to start soon and it was thought that that would improve the supply condition. The demand was said to be of small volume but was steady.

Anise—Conditions in China still made the future of this material unpredictable. Offers at the source were just about nonexistent, but some houses in New York were confident that shippers there would find a way to get their merchandise through. Although it was reported that prices were showing a stronger tone, the range of listings last week was without change.

Apricot Kernel—The low side of the range remained unchanged at 42c. last week but there was an advance noted in the high side. The former figure of 56c. rose to 60c. There was not a great deal of the product on the market but the demand for it was only moderate and therefore there was no particular pinch being felt.

Bergamot—The artificial oil was without feature on the New York market during the past week but there was a rise noted in the price of the natural, Italian material. The high side of the range went up from $4.50 to $4.95, although on the low side there was no change from the old listing of $4.40.

Bois de Rose—The Brazilian material took on a stronger tone during the past week, advancing from $2.75 to $2.85, although there were no changes reported on the high side of the range, which remained at $3.50.

Cananga—Prices for the native were extended on both sides of the range during the period under review. The low side dropped from $3 to $2.75, while the high side advanced from $3.50 to $3.55.

Caraway—This oil showed a weakening tendency on New York's market during the past trading period. The previously listed price of $4.75 dropped to $3.65.

Cassia—The supply and demand conditions for this material remained largely unchanged during the past week. It was still difficult, if not impossible, to get any of the item out of China, although there was confidence expressed by one major factor in New York. This source felt that "where there's a will, there's a way," and that eventually the shippers in the East would be able to get their goods to the coast. Some sellers in this country still had some material on hand, but their stocks were not considerable. The low side of the price range was unchanged during the week, although there was an advance from $2.75 to $3 on the high side.

Citronella—The Ceylon remained unchanged as to price on the low side of the range during the past week but there was an advance from $1.15 to $1.40 on the high side. The market for the Java type was without feature.

Clove—Oil from Madagascar buds remained unchanged at $1.45 on the low side of the range during the past week but the high side advanced from $1.85 to $1.90. The Zanzibar showed no change.

Costus—The price of this item was without change during the week and the supply and demand picture was largely what it had been in the recent past. There was not a great deal of the product on the market and not all houses were in possession of supplies.

Dillweed—This item dropped in price from $6 to $5.65 on the New York market during the past week. Most factors were in agreement that the general supply was satisfactory but there was some difference of opinion regarding the demand, both present and future. One source felt that the big consumers had probably taken all of the material they would want for this season, although another felt that they would still do more buying but were now holding on for price advantages. Some felt that the biggest part of the buying season was over while in other sections of the trade it was expected that January would show a considerable demand.

Geranium—Although there was still some tightness in the market for the Algerian and Bourbon, the market in New York last week was without change as far as prices were concerned. There was not a great deal of oil ready for sale but since the demand was not up to particularly high levels, the relationship was still a comfortable one.

Ginger—On the low side of the range, this oil was still being listed at $21 last week but on the high side there was an advance from $25 to $27.50. There was no weakness indicated in the market.

Juniper—The berry was in a largely unchanged position during the past week. The demand was not at especially high levels although there was sufficient of the material available to fill orders of good size.

Lavender—The flower oils were without change as to price during the past week but the Spanish spike advanced from $1.40 to $1.60 on the high side of the range. The low side was unchanged at 90c. The demand for the flower oils in recent weeks was reported somewhat improved.

Lemon—An advance on the low side of the range was noted for the California oil during the past week. The price rose from $2.65 to $2.75 but on the high side the price was still $3. There were no changes reported in the listings for the Messina, although the supply of good oil was not particularly strong. Demand in general was holding at good levels but was not what it was during the Summer months of heavy demand.

Lemongrass—Although the supply of this item was far from strong there were no changes reported on the low side of the price range during the period under review. On the high side, however, the listing rose from $2.30 to $2.40. Supplies were very scarce at the source, and because of this more than one factor in New York announced last week that it had withdrawn from the market to await developments. Stocks on hand were none too great and it was heard that the crop abroad was not large this year. It had also been stated that some of the acreage that would normally have gone into the production

For Late Market Developments, See Page 4

of lemongrass was now devoted to food crops. Because of the absence of large stocks, some sellers were willing to sell only to their regular customers.

Lime—Distilled oil of both Mexican and West Indian origin was unchanged as to price during the past week, but the high side of the range on the expressed, West Indian product advanced from $9.75 to $10.50. While demand for lime was holding up at reasonably good levels, it was, of course, not so strong as it was during the hot Summer months when the manufacturers of soft drinks were in the market for large amounts of it.

Mustard — The synthetic USP material was reported to be without change as to price during the past week and the supply and demand picture was largely unchanged from what it was in the recent past. It was announced recently that an export duty of ten cents per pound has been imposed on mustard oil by the Indian government.

Nutmeg—Pricewise, both the East Indian and West Indian material was without change during the past week. There was some difference of opinion as to the supply position of the material last week. One house said it could not deliver the East Indian oil, that the nuts were on the way but not many were being offered and therefore the item was considered on the short side. Another said supply was fairly good and still another called it satisfactory.

Ocotea Cymbarum — Not much change was noted in the supply and demand for this material during the past week, although one house raised its price to 70c., which caused an increase of 10c. in the high side of the range. The low side was unaffected.

Orange — Pricewise, there were no changes reported for any of the oils in this category during the period under review. Supplies were still holding at about the levels noted in the recent past. Demand was not what it was during the hot Summer months but there was an increase in demand to be expected soon as a result of the nearing of the Christmas manufacturing season, which will bring with it a stronger demand for products flavored with this oil.

Patchouli—A decrease of 50c. a pound was noted for this material during the past week, to establish the listing on the lower side of the range at $13.50. Supplies were none too plentiful and there was not a great deal of the material being

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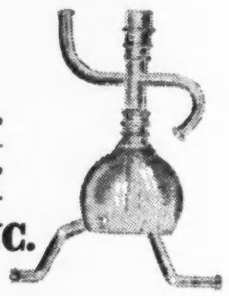

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offered at the source. Some sellers expressed the opinion that the material was likely to go up again. Others thought prices would hold at about current levels until Christmas. The holiday season was expected to cause a greater demand for this material and there was evidence that those who manufacture for the seasonal trade were already in the market for the item.

Pennyroyal—The imported material remained unchanged as to price on the low side of the range during the past week, but the high side advanced from $5.25 to $5.50.

Peppermint—The natural material was without change as to price during the period under review, but there were downward revisions for the redistilled. On the low side of the range the product dropped from $5.25 to $5.20, while on the high side it dropped from $6.15 to $5.50. Sellers generally felt that the demand was showing some strength.

Sassafras—The artificial came down in price from 50c. to 44c. on the New York market during the past week. It was reported that there were many varying prices being listed during the week. Some sources, despite the week's decline, thought that the item was on the way up.

Savin—Drops in price were noted on both sides of the price range during the past week. The low side came down from $3 to $2.50, while the high side showed a reduction from $3.25 to $2.75.

Snakeroot—The low side of the price range was unchanged at $18.75 during the past week, but the high side was reduced from $23.50 to $20.

Spearmint—This item showed some weakness in price during the past week, dropping from $3.25 to $3.10 on the low side of the range. Supplies were said to be running from fair to good, and demand in some quarters was reported to be good, while in others it was said to be somewhat on the weak side.

Wormseed—The $3.45 price on the low side of the range was without change during the past week, but there was a reduction noted on the high side. That figure came down from $4.10 to $3.85.

Aromatic Chemicals

Amyl Salicylate—The market for this material was without particular feature during the past week. Supplies were still holding at reasonably good levels and the demand was about what it had been in the immediate past. The price structure was unchanged.

Anethol—This item continued in about the same position it had been in, despite the fact that there were some uncertainties in the raw material picture. Price-wise, the item showed no change from previous listings.

Benzophenone—No particular difficulties were noted in the supply situation during the period under review and demand was holding up at about the same levels noted in recent weeks. The price range was still $1.15 to $1.30.

Eucalyptol—Supplies of this material were at good levels during the period under review and the indications were that they would remain that way for an indefinite period. The demand was reasonably good and the price structure showed no change.

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Protective Coatings Materials

Reductions in lead pigments last week produced another 0.9 point drop in the index for coatings materials, the figure falling to 201.7. All other price moves were also on the down side, with declines noted for some grades of orange shellac and leaded zinc oxide.

Reflecting the October 14th shrinkage in pig lead, both blue and white lead sulphates were downed three-quarter cent per pound, as was lead silicate. One brand of basic silicate white lead was shaved three-quarter cent, narrowing the going market price on these pigments. Dry white lead was skimmed five-eighth cent by one maker, thus reestablishing a uniform price for the material throughout the trade. This producer also followed the previous action of another manufacturer, effecting three-quarter-cent lowerings on red lead, litharge and mineral orange.

Also growing out of the October 14th decline in metallic lead last week were decreases of three-eighth cent per pound each on schedules of 35 percent and 50 percent leaded zinc oxide. Metallic lead paste, meanwhile, was skimmed one cent across the board, the action stemming from accumulated savings in the cost of pig lead.

Stocks of aluminum paste and powder were plentiful in the main, despite the strike situation at plants of one producer. The trade reported that there was little danger of a drying up of supplies. Chromes held steady. Call for these pigments was good. With the possible exception of red lead, in lesser demand because of the steel walkout, interest in lead pigments remained excellent.

Mercuric oxides were firm, although quicksilver fell off $1 per flask. Consumption of titanium dioxide and lithopone was at good levels, the steel tieup notwithstanding. Zinc oxide buying was also heavy. Stocks were narrow, due in large part to the tight position of special high-grade zinc and the continued strike condition at plants of one oxide manufacturer.

Mica was firm, although producers expected that recent passage of the 75-cent minimum wage law would result in advances late this year. Superfine and TN shellac sank one cent each in New York. The Calcutta market, spotty in the main, weakened slightly at the close. Activity in casein was quiet during the week, buyers awaiting lower quotations.

Market Trends

Prices Advanced

Rosin, gum, Savannah, WW, X, 7c. per 100 lbs.

Prices Reduced

Lead, blue, basic sulphate, ¾c. per lb.
Metallic paste, 1c. per lb.
Silicate, ¾c. per lb.
White, basic sulphate, ¾c. per lb.
Savannah, H, I, K, M, N, WG, 2c. per 100 lbs.
Rosin, gum, New York, E, F, G, H, I, K, M, N, WG, 10c. per 100 lbs.
Shellac, superfine, 1c. per lb.
TN, 1c. per lb.
Turpentine, gum, Savannah, ½c. per gal.
Zinc oxide, American process, leaded, 35%, ⅜c. per lb.
50%, ⅜c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
201.7	202.6	211.9	210.2

(*For Current Prices see Page 9*)

Prime Pigments

Aluminum Paste, Powder—Despite the strike at plants of one leading producer, the overall supply situation of these pigments continued adequate. The strike-bound maker reported scarcity of some grades. However, buyers were able to find similar material elsewhere in the market, and as of last week there appeared little danger of a general drying up of stocks. Prices were firm all along the line, and there was no indication of any imminent changes.

Chrome Colors—Quotations were maintained during the period in the face of recent lowerings in pig lead. Demand was reported good. Stocks were said to be ample. Prices follow:—Green, CP, 37c. to 47¾c.; green, reduced, 13c. to 29c.; orange, 32c., and yellow, 32c. per pound.

Lead, Metallic Paste—Reflecting recent weakening in the pig lead market, prices of this pigment material were reduced 1c. per pound across the board last week. Following are current quotations:—40,000 pounds, 28c.; 20,000 pounds, 28½c.; 10,000 pounds, 29c., and 2,000 pounds, 29½c. per pound.

Lead Pigments—The market settled at lower levels in the wake of the October 14th decline of ¾c. in pig lead. Both blue and white lead sulphates were downed ¾c. per pound, as was lead silicate. One brand of basic silicate white lead was decreased ¾c., narrowing the going price on these pigments. A reduction of ⅝c. per pound on dry white lead was effected by one manufacturer, thus reestablishing a uniform price for that material throughout the trade. This maker also followed along behind previous lowerings of another producer on red lead, litharge and mineral orange, skimming these products ¾c. per pound each.

Weakness in the metal was attributed to two factors:—1. Stiff competition from foreign sellers, and 2. The necessity of storing Mexican production because of the insufficiency of demand. With the possible exception of red lead, in lesser demand because of the steel strike, call for pigments continued good. Stocks were regarded as adequate.

Following are current pigment quotations:—Lead sulphate, 14c. to 15c.; red lead, 95 percent, 15¾c. to 16¾c.; red lead, 97 percent, 16c. to 17c.; red lead, 98 percent, 16¼c. to 17¼c.; basic carbonate white lead, 15⅝c. to 16⅝c.; basic silicate white lead, 14⅞c. to 18¼c.; litharge, 14¾c. to 15¾c.; lead silicate, less carload, 15.15c. to 15.75c., and mineral orange, less carload, 19.10c. per pound.

Lithopone—The price structure of this pigment material held firm during the period in the face of the recent decline in metallic zinc. Consumer inquiry was reported good. Stocks were plentiful all around. Ordinary was quoted at 6¼c. to 6⅝c., while titanated commanded 8¼c. to 8½c. per pound.

Mercuric Oxides—Quicksilver fell off $1 per flask last week to a flat price of $72 for round lots. There was some shading noted, and the trade felt that $70 could be done for an extra-large lot. However, there were few takers. Small-lot quotations ranged from $73 to $75 per flask. The oxides, meanwhile, held steady at $2 to $2.02 for red and at $1.93 to $1.95 per pound for yellow.

Titanium Dioxide—The steel tieup notwithstanding, call for this pigment material continued excellent during the past week. Of course, over the long run, the strike posed a considerable threat to business, since a shortage in steel would necessarily mean a curtailment in protective coatings operations. The supply position was good. Prices were steady throughout the market, and there was no indication of any changes in the making.

Zinc Oxide—Producers last week reduced 35 percent and 50 percent leaded grades ⅜c. per pound each, a reflection of the October 14th decline in metallic lead. Current quotations call for 12c. to 12¼c. on the 35-percent material and 12½c. to 12¾c. per pound on the 50-percent leaded. There were no changes in quotations on lead-free grades.

Buying continued active for all zinc oxides during the week. Stocks were narrow, due in large part to the tight position of special high-grade metallic zinc. Operations of one major pigment producer continued at a standstill, as strike negotiations remained deadlocked.

Fillers and Extenders

Calcium Carbonate—Importations during the past week totaled 12,900 bags of whiting from Antwerp and London. Buying was moderate. Stocks were good all around. Prices were without feature.

Kyanite—There was no change in the market position of this material during the period. Arrivals during the past seven days aggregated 395 tons of kyanite ore from Calcutta.

Mica—Demand continued good last week. Stocks were reported ample. There was no surplus, but, then, there was no shortage, either. Prices continued firm during the period. It was believed that advances would probably be effected at year's end, reflecting both the recent passage of the 75c. minimum wage law and higher freight rates. Imported during the period were 1,797 cases of mica from Calcutta and Rio de Janeiro and 99 cases of blocks from London.

Synthetic Resins

Call for alkyds continued good during the week. Supplies were reported adequate. Meanwhile, phthalic anhydride continued to narrow as the steel tieup dragged on. Refined glycerin was said to

For Late Market Developments, See Page 4

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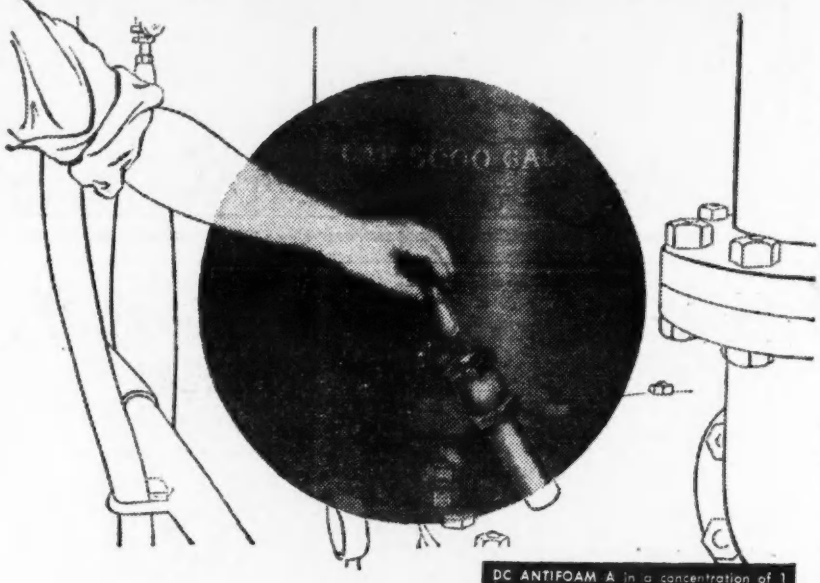

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be approximately in balance with demand. The crude situation, which has been short, was expected to improve materially because of the arrival of Argentine and Russian materials. Phenolic resins continued in ample supply, although stocks of synthetic phenol were known to be dwindling because of labor difficulties in the steel industry.

Naval Stores

Pine Gum—Prices received by producers for crude pine gum delivered to processing plants during the week ended October 15 averaged $21.52 per standard barrel of 435 pounds for gum purchased outright and $21.67 for gum processed for the Commodity Credit Corporation loan, according to the Department of Agriculture. The weighted average price paid for all gum was $21.54 per barrel as compared with $21.80 for the previous week.

The 26 reporting plants received 25,182 standard barrels of commercial gum and 3,088 barrels of loan gum, a total of 28,270 barrels or 1.087 barrels per plant as compared with 1,094 barrels at the same plants a week ago.

The estimated turpentine content of the gum were 11.12 gallons for loan gum, 11.08 gallons for commercial gum, or an average of 11.09 gallons. Rosin contents were 297.0 pounds for loan, 298.1 commercial, or an average of 298.0.

The gum was graded as follows:—WW, loan 51, commercial 44, average 45; WG, loan 21, commercial 20, average 20; N, loan 13, commercial 14, average 14; M, loan 7, commercial 13, average 12; K and below, loan 8, commercial 9, average 9.

The record of the gum naval stores markets over the week ended October 21 was as follows:—

Gum Rosin

	Price per 100 lbs.						
	Savannah Exchange (Low of range)					New York c.i.f. N. Y. whse.	New York l.c.l. ex N. Y. whse.
	Mon.	Tues.	Wed.	Thurs.	Fri.	Friday	
B	$5.75	$5.75	$5.75	$5.75	$5.75	$7.25	$8.00
D	6.00	6.00	6.00	6.00	6.00	7.25	8.00
E	6.36	6.36	6.36	6.36	6.36	7.55	8.30
F	6.42	6.42	6.42	6.42	6.42	7.55	8.30
G	6.58	6.58	6.58	6.64	6.58	7.55	8.30
H	6.60	6.58	6.58	6.64	6.58	7.55	8.30
I	6.60	6.58	6.58	6.64	6.58	7.55	8.30
K	6.60	6.58	6.58	6.64	6.58	7.55	8.30
M	6.60	6.58	6.59	6.64	6.58	7.55	8.30
N	6.60	6.58	6.59	6.64	6.58	7.55	8.30
WG	6.60	6.58	6.59	6.64	6.58	7.55	8.30
WW	6.73	6.73	6.73	6.80	6.80	7.80	8.55
X	6.73	6.73	6.73	6.80	6.80	7.80	8.55
	Drums						
Sales		383	400	971	309		
Receipts	262	161	524	623	209		
Shipments					4,303		
Stocks	33,734	33,895	34,419	35,047	30,953		

Gum Turpentine

	Savannah Exchange Bulk					New York (ret. dms.) tanks l.c.l. f.o.b. ex N.Y. whse. (7 lbs.)	
	Mon.	Tues.	Wed.	Thurs.	Fri.	Friday	
Per gal	.39	.39	.38½	.38¼	.38½	.47½	.56
Sales, bbls.		160	160	160	160		
Receipts, bbls.	270	469	577	118	442		
Shipments, bbls.	44	29	120	12	4,818		
Stocks, bbls.	15,903	16,343	16,800	16,906	12,530		

Natural Resins

A further increase in buying activity was noted in the New York market last week, although adjustments arising from the recent devaluation of foreign currencies had still not made themselves felt here. With the possible exception of Singapore No. 1, most gums were in ample supply. Arrivals during the period tataled 332 bags and 555 baskets of copal resin from Matadi, Singapore, Tandjong Priok, Sourabaya and Macassar and 140 bags of dammar from Singapore. Meanwhile, it was reported that exports of copal gum from the Philippines during the first half of this year totaled 337 metric tons, compared with 908 tons during the corresponding period in 1948.

Shellac—Superfine and TN lacs fell off 1c. per pound here last week. The Calcutta market, spotty in the main, weakened slightly toward the close. Demand in this country, which has been reasonably good, was said to have sloughed off a little because of the steel strike, although, in general, a sizable volume of business was still being done. Both lemon grades and bleached shellac remained firm. The supply position was relatively unchanged, the better oranges continuing on the tight side.

Rumors about the imminent imposition of an export tax on shellac remained current in the Indian market. It was noted by dealers here that the September 21st ordinance of that government, which assumed the powers of such a levy, has been given recognition in all contracts written in Calcutta. According to the information, all current agreements include a clause which allows for the imposition of such a tax.

Importations during the period totaled 2,235 bags of seedlac, 1,468 bags, 158 cases and 7 drums of shellac from Calcutta, Bangkok, London, Rotterdam, Hamburg and Hong Kong. Following are orange shellac prices:—Lemon No. 1, 64c. to 65c.; lemon No. 2, 62c. to 63c.; superfine, 59c. to 60c., and TN, 57c. to 58c. per pound.

Miscellaneous Materials

Asbestos—Stocks of both longs and shorts remained in narrow supply during the period. Demand was heavy for both types. Prices were maintained. Imported were 575 bags of asbestos fiber from Fremantle.

Casein—All grades held steady here during the week. There was little, if any, activity, buyers awaiting lower prices. Meanwhile, the flush season was reported to be gaining momentum in the Argentine. Peak runs were expected next month. Domestic casein remained woefully short, due primarily to huge government purchases of skimmed milk. Imported was quoted at 17¾c. to 18c.; standard domestic brought 22c. to 22½c., and premium domestic was named at 22½c. to 23c. per pound.

Commodity Credit Corporation for the week ended October 14 purchased 5,205,169 pounds of spray process skimmed milk powder and 2,430,340 pounds of roller process. To date, government purchases of milk powder this year have aggregated

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362,615,724 pounds, compared with 88,254,584 pounds for the corresponding period last year. Importations last week totaled 11,520 bags of casein from Buenos Aires.

Glue—Bone grades were still in excellent demand during the week. Call for hide glues, though less intense, improved. Prices were steady all around. Imported during the period were 1,651 bags of bones from Montevideo and 1 bale of gluestock from London.

Gypsum—Arrivals during the past seven days were reported at 22,334 tons of gypsum from Walton and Hantsport.

Metallic Driers—Demand, which has been fair, weakened a little last week. Stocks were plentiful throughout the market. Prices remained firm, despite recent declines in nonferrous metals.

Synthetic Adhesives—The Bureau of Census reported total August consumption at 6,595,000 pounds, compared with 3,697,000 pounds in July and 7,224,000 pounds in August, 1948. Stocks at the end of August totaled 3,586,000 pounds, opposed to 3,749,000 pounds held on July 31 and 4,729,000 pounds on hand on August 31, 1948.

CDIC Paint Technicians Hear Tall Oil Discussion

Dr. C. B. F. Young, of the National Southern Products Corporation, was featured speaker at the recent meeting of the Cincinnati, Dayton, Indianapolis and Columbus Paint and Varnish Production Club. He spoke on the evolution of tall oil, and introduced Karl Perkins, chief chemist of the company, who discussed the uses of tall oil.

Plastics Show Mar. 28-31

The 1950 national plastics exposition will be held at the Navy Pier in Chicago on March 28 through 31, it was announced last week by the Society of the Plastics Industry.

Alabama Offers Paint Course

The University of Alabama, through its School of Chemistry, Metallurgy and Ceramics, is starting a new course this Fall for students who wish to enter the paint industry or those fields related to it. The first year course of study will cover the principles of paint, varnish and lacquer chemistry. Plans are under way to expand the course in the second year.

Pierce Assigns Sinnott

F. O. Pierce Company, Long Island City, N. Y., has announced the appointment of William A. Sinnott as sales representative for the greateer Boston, Maine, Vermont and New Hampshire territories. Mr. Sinnott will service established Pierce paint dealers and coordinate sales expansion activities in the areas.

Martin-Senour Promotes Stuart

Martin-Senour Company, paint manufacturer, Chicago, has appointed Spencer R. Stuart general sales promotion manager. For the past two years Mr. Stuart has been in charge of sales promotion for the company's Nu Hue division.

Trade Briefs

Prufcoat Laboratories, Inc., Cambridge, Mass., has appointed John G. Wild assistant sales manager.

Harshaw Chemical Company, Cleveland, is calling attention to the quality of its naphthenate driers by distributing samples packaged in Erlenmeyer flasks, enameled with the Harshaw trademark.

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"Color Content Guaranteed"
Chrome Greens
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Para Reds, Iron Blues
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DETROIT, MICH.	Western Solvents & Chemicals Co.	6472 Selkirk Avenue
GRAND RAPIDS, MICH.	Wolverine Solvents & Chemicals Co.	1500 Century Avenue
HOUSTON, TEXAS	Texas Solvents & Chemicals Co.	8501 Market Street
INDIANAPOLIS, IND.	Hoosier Solvents & Chemicals Co.	1650 Leutt Avenue
LOS ANGELES, CAL.	Griffin Chemical Co.	555 South Flower Street
LYNDHURST, N. J.	Stoney-Mueller, Inc.	Page & Newark Avenues
MILWAUKEE, WISC.	Wisconsin Solvents & Chemicals Co.	1719 S. 83rd Street
NEW ORLEANS, LA.	Southern Solvents & Chemicals Co.	1854 Jefferson Highway
PROVIDENCE, R. I.	Philipp Bros. Chemicals, Inc.	511 Westminster Street
SAN FRANCISCO, CAL.	Griffin Chemical Co.	1000 16th Street
ST. LOUIS, MO.	Missouri Solvents & Chemicals Co.	419 DeSoto Avenue

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Paint Industries Show Exhibitors

Atlantic City, N. J., November 3-5

Paul O. Abbe, Inc.
Booth No. 82

A display of ball and pebble mills for laboratory and plant, showing a glass-end mill in operation to illustrate the grinding action obtained.

Advance Solvents & Chemical Corp.
Booth No. 31

A group of chemical specialties for overcoming paint production problems are displayed. Data covering their application and the experiences of the industry in connection with their use are available. Also on display is a new stabilizer for polyvinyl chloride resin coatings.

C. M. Ambrose Company
Booth No. 74A

A display of model PF9 filling and closing machine for all sizes friction lid containers from one-quarter pint up to and including gallons. A five-gallon pail filling and crimping machine and a new model strainer are demonstrated. Literature and catalogs available.

American Cyanamid Company
Booth No. 40

This display features a wide range of synthetic resins for the surface coating industry: "Rezyl," "Teglac," "Phenac," "Beetle," "Melmac" and "Cycopol" resins.

Anderson-Prichard Oil Corporation
Booth Nos. 67 and 68

Featured is a flowcoat testing machine to show the behavior of various thinners in this method of applying paint. Effects of thinner loss, thickening and film forming characteristics of the paint subjected to flow coat testing can be noted. Panels and other displays featuring "Apco" flow-coat reducers are shown. Data on hydrocarbon solvents, reducers, thinners, naphthas and diluents available.

Archer-Daniels-Midland Company
Booth No. 3

A display showing A. D. M.'s outstanding new products, such as "Admerol No. 351," "Ardol," "Varsoy" and fatty acids. Exposure panels demonstrate greater durability obtained through the use of these products.

Atlas Electric Devices Company
Booth No. 37

On display is a "Weather-Ometer," the standard laboratory instrument for conducting accelerated weathering tests on paint, varnish, lacquer and related products. The unit shown is the latest type, featuring automatic control of the variable factors of the test. Literature on both the "Weather-Ometer" and "Fade-Ometer" at hand.

Atlas Powder Company
Booth No. 26

"Sorbitol" is featured. This hexadric alcohol offers many advantages in the synthesis of hard gums, alkyd resins, tall oil esters and "in situ" varnishes, is useful in control of melting points, viscosities and solubilities of maleic and phenolic modified resin esters. Literature available describing its properties and uses.

Bakelite Corporation
Booth Nos. 15, 16, 17 and 18

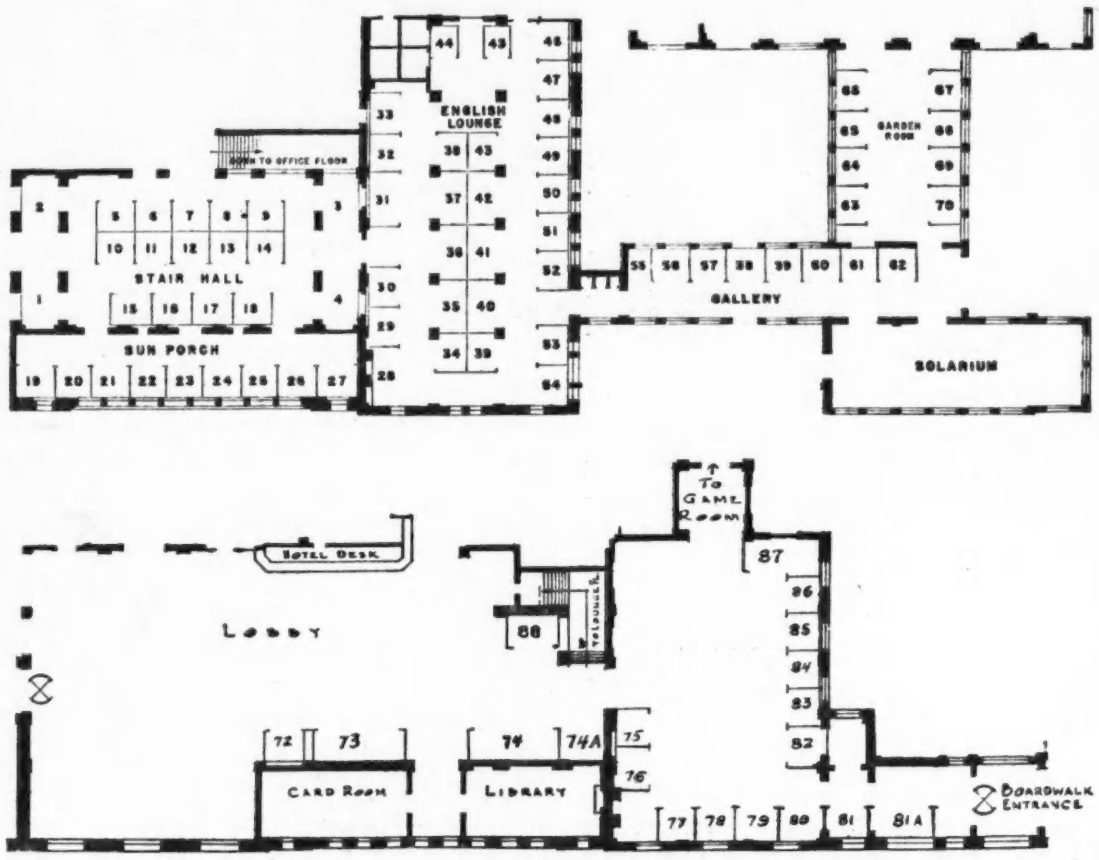
Improved materials and better technique for application will be featured. Among the new developments will be new formulations containing "Vinylite" resins "VAGH" and "VYCC," the new one-package system for the vinyl-butyral wash primer, methods of obtaining exceptionally high gloss from dispersion coatings based on resin "VYNV," and paper coatings and interior architectural finishes based on a "Bakelite C-10" resins-oil modified styrene copolymer solutions.

Baker Castor Oil Company
Booth Nos. 69 and 70

An exhibit featuring selected paint formulations for use as starting points for commercial protective coatings. Details of formulations and coated panels demonstrating finishes are shown.

Bennett Industries, Inc.
Booth No. 46

A display of steel barrels, cans, drums and pails being distributed to the paint industry.



Binks Manufacturing Company
Booth No. 23

An exhibit of a complete line of spray painting and finishing equipment, spray guns, cups, oil and water extractors, etc. A representative will be on hand to explain water wash spray booths, air supply systems and on special spraying problems. Catalogs and other technical data will be available.

Binney & Smith Company
Booth No. 58

A display of "Mapico" colors including panels and other objects coated with various types of "Mapico" colored finishes. Carbon blacks for the protective coating industry also featured.

Brighton Copper Works, Inc.
Booth No. 86

An exhibit of photographs of actual installations of large set kettles of the "Dowtherm" and gas fired heated type and also protable alkyd kettle installations.

Burt Machine Company
Booth No. 74

An exhibit showing a new late model labeler which will handle a wide range of sizes from ¼ pint up to and including standard gallons. An electric case packer model PCE will also be shown.

Chisholm-Ryder Company
Booth No. 75

An exhibit showing an adjustable labeling machine having fast production capacity and quick change-over.

Theodore Cornelius
Booth No. 77

On display a completely new designed automatic conveyor lug crimping unit for the mechanical feeding and closing of lug covered pails in all sizes from two gallon to ten gallon pails. A portable unit which automatically closes pails in speeds varying from six to fifteen pails per minute. A Day mixer will also be displayed.

Cuno Engineering Company
Booth No. 81-A

This display features filters, "Auto-Klean" and "Micro-Klean," for producing quality paints, varnishes, lacquers and enamels.

J. H. Day Company
Booth No. 88

An exhibit showing a five by twelve inch type B laboratory three roll mill. Literature and information available covering all types of Day mills and mixers.

Diamond Alkali Company
Booth Nos. 10 & 11

Exhibits will demonstrate the application of two types of products in paint formulations: (1) precipitated calcium carbonates—"Surfex," "Multifex," "Non-Fer-Al" and "Suspenso"; (2) chlorinated paraffins—"Chlorowax 40" and "Chlorowax 70."

Durez Plastics & Chemicals, Inc.
Booth No. 25

Various resins, varnishes and coatings are displayed. Literature on all Durez resins will be available.

Elgin Manufacturing Company
Booth No. 76

A model "H" paint filling and automatic closing machine which incorporates the filler, cover dropper and capper, is displayed. Literature describing the rotary six cylinder paint filling machine and others is available.

Falk & Co.
Booth Nos. 65 & 66

An exhibit illustrating the use of "Falkovar" fish oils, "Falkolin" linseed oil, Falk soybean oils, and "Falkyd" alkyd resins in various practical applications important to the paint industry. Coumarone-indene, terpene and styrene resins will also be featured as well as a radically new development in a line of fish oils. Formulation sheets and specification data available.

Federation Manufacturing Committee
Booth Nos. 51 & 52

A display of photographs and plans involving recently constructed paint plants. Modern construction and equipment are pictured.

Ferro Chemical Corporation
Booth Nos. 48 & 49

A general display of metallic soaps, driers, stabilizers and cobalt compounds are shown.

Henry A. Gardner Laboratory, Inc.
Booth No. 4

An exhibit of many instruments for measuring the physical properties of protective coatings, including instruments for measuring appearance and other optical factors.

General Electric Company
Booth Nos. 21 & 22

A display featuring the outstanding characteristics of a new white baking enamel formulated with G-E "Glyptal" alkyd resins No. 2520 and No. 2572. Plasticizers and silicones will likewise receive special attention. Literature on all G-E products for paint finishes will be available.

General Mills, Inc.
Booth No. 28

An exhibit of refined soybean oils, fractionated and mixed fatty acids and polyamide resin. Specification data and technical brochures available.

Geuder, Paeschke & Frey Company
Booth No. 39

Paint pails, putty pails, drums, double compartment pails and such containers are displayed. Descriptive literature on containers available.

Goodyear Tire & Rubber Company
Booth Nos. 5 & 6

A display of resins and resinous and rubber latices featuring "Pliolite S-5" in stucco finishes, wall sealers and traffic paints, "Pliolite Latex 170" as an additive for water-based paints, and "Chemigum Latex 101A" as a base material in water emulsion paints.

Hercules Filter Corporation
Booth No. 84

Manufacturers of pressure leaf filters, sheet filters, asbestos sheets, loose asbestos, tanks, agitators, and chemical process equipment. Catalogs and bulletins for distribution.

Hercules Powder Company
Booth Nos. 56 & 57

Exhibit will feature cellulose derivatives, chlorinated rubber, synthetic resins, and naval stores products.

Herman Hockmeyer & Co.
Booth No. 85

An exhibit showing a heavy duty paste agitator with a self-contained hydraulic lift system, 360-degree swing, finger tip control variable speed drive. Literature available on heavy duty paste mixers, agi-

French Paint Trade Visitor

Pierre Arnaud of A. Arnaud S.A., Paris, France, Oscar P. Muller of the National Lead Company and Frank P. Connolly of the Valspar Corporation (left to right) are shown at the October meeting of the New York Paint, Varnish and Lacquer Association, of which Mr. Connolly is president. Mr. Arnaud, who is visiting friends and paint industry men in the United States, was a guest at the meeting.

tating tanks, storage tanks, change cans, and so forth.

Inland Steel Container Company
Booth Nos. 29 & 30

Various types and sizes of paint pails are displayed. New literature available illustrating and describing all types, sizes and styles of Inland steel drums and pails.

Kent Machine Works
Booth No. 83

Designer and manufacturer of machinery for paint, ink and chemical manufacturers. Display of model grinding equipment. Literature available showing advantages of Kent mills.

J. M. Lehmann Company
Booth No. 72

Manufacturer of roller mills for paint and ink makers. Literature covering three-roll and five-roll equipment, as well as laboratory mills, is available.

D. H. Litter Company
Booth Nos. 64 & 65

A display of products of Litter's various principals.

Magna Manufacturing Company
Booth No. 7

A display of aluminum and bronze powders and pastes having bright color, pure and free from adulterants.

Mineral Pigments Corporation
Booth No. 55

An exhibit exemplifying new jet-milled materials featuring ultra-fine grinds formulated into coatings. Literature available covering synthetic pigments of all types.

Morehouse Industries
Booth No. 87

A display showing three mills: model MP, model B-1400 and model B-2000. Actual grinding operations show how the model MP works.

National Lead Company
Booth No. 35

Pigments, oils and chemicals of a wide variety are exhibited.

Neville Company
Booth No. 12

A display will feature Neville's complete line of products used in the paint industry: coumarone resins, "Nevillac" alcohol - soluble resins, anti - skinning agents, creosote oils, shingle stain oils, plasticizing oils, and coaltar solvents. The new "Neville LX-685," an oxidizing type of resin, will be a feature.

Newport Industries, Inc.
Booth No. 33

A display of wood rosins, zinc resinates, gloss oils, turpentine, pine oil and special terpene solvents is featured. New products and materials are exhibited.

Nuodex Products Company
Booth Nos. 63 & 64

The Nuodex booth will preview an important new Nuodex development coming soon.

Patterson Foundry & Machine Co.
Booth No. 73

A display showing the Patterson "Kneadermaster" with dispersion blades, and a small production size high-speed chrome manganese steel ball mill with direct-connected motor drive. Dispersion action of the "Kneadermaster" will be shown.

Plaskon Division
Libbey-Owens-Ford Glass Company
Booth Nos. 32 & 38

An exhibit showing flow charts which trace the raw materials to their designated number through the physical properties and finally to the end-use application for "Plaskon" alkyd coating resins. Individual display units of "Plaskon" ureas, maleics, ester gums, and phenolic coating resins. Literature and data vailable.

R-B-H Dispersions Division
Interchemical Corporation
Booth No. 50

An exhibit of pigment dispersions in a wide variety of plastic and resinous binders. A new pigment, "Midas Gold," introduced this year, is featured, filling the need for a transparent, light-fast pigment which produces a rich, gold-like effect over metallic surfaces. Panels available for inspection.

Reichhold Chemicals, Inc.
Booth Nos. 53 & 54

Manufacturer of synthetic resins, chemical pigment colors, phenolic plastics and industrial chemicals. Exhibit will feature "Styresol" resins and new developments in colors.

—*Continued on page 78*

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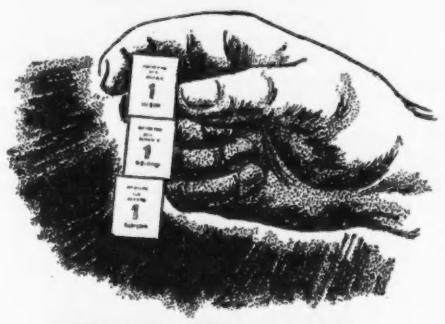
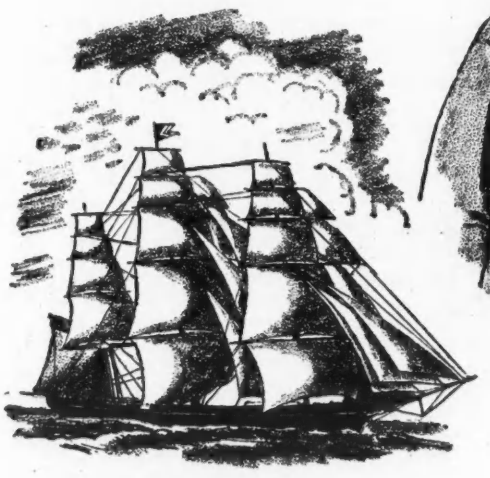
DO YOU KNOW? By John Doe



STEEL BLOCKS
STEEL BLOCKS CAN BE MACHINED SO SMOOTHLY THEY WILL ACTUALLY STICK TOGETHER.



CLIPPER SHIPS
NOT UNTIL A GENERATION LATER DID A STEAM LINER BREAK THE TRANS-ATLANTIC SPEED RECORD SET BY THE CLIPPER SHIP "LIGHTNING" IN 1856

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UNITOL BRAND OF TALL OIL COSTS CONSIDERABLY LESS, WHEN ESTERIFIED, THAN THE AMOUNT OF ESTER GUM AND SOY BEAN OIL IT REPLACES. THIS MEANS A SUBSTANTIAL SAVING IN THE FINISHED VEHICLE.

YES, and it's a fact that Unitol will continue to give manufacturers a substantial cost advantage in the months ahead, whether market quotations on competing raw materials are firm or decline.

So meet your price competition by switching to Unitol, the non-crystallizing Tall Oil with better drying characteristics.

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You'll be in good company, for *more* paint manufacturers are using *more* Unitol today than ever before—even more than when competing oils were in short supply!

For basic information and formulations for the application of Unitol in the coating field, write today for your copy of "Facts and Formulas for Coatings."

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CINCINNATI Deeks & Sprinkel
CLEVELAND Norman G. Schabel Co.
DETROIT C. W. Hess Co.
HOUSTON Joe Coulson Co.
KANSAS CITY John T. Kennedy Sales Co.
LOS ANGELES E. B. Taylor Co.
LOUISVILLE Deeks, Sprinkel & Miller, Inc.
MONTREAL, CAN. Wm. J. Michaud Co., Ltd.
NEW ORLEANS C. N. Sutton
PHILADELPHIA Loos & Dilworth, Inc.
PITTSBURGH Jos. A Burns
PORTLAND, ORE. Miller & Zehrung Chemical Co.
ST. LOUIS Harry G. Knapp
SAN FRANCISCO E. M. Wells
SEATTLE Carl F. Miller & Co.
TORONTO, CAN. A. S. Paterson

Austrian Chemical Industry Loaned Money for Expansion

The release of 19,850,000 schillings from the Austrian counterpart funds for development and expansion of the chemical industry in Austria was announced October 19 by the Economic Cooperation Administration. In American currency this amounts to $1,985,000.

The money for the chemical industry was part of a release of 388,000,000 schillings from the counterpart funds to industry and agriculture generally for development work. Also included in the release was 16,470,000 schillings for the pulp and paper industry, 5,800,000 schillings for nonferrous metals industries and 900,000 schillings for the glass industry.

Counterpart funds are the foreign currency equivalents of ECA dollar grants to participating countries. The funds accumulate as citizens of each country buy goods and services furnished to their governments under the European recovery program. The foreign currency is held in special accounts for industrial, agricultural and other recovery projects within the country and released periodically with the approval of ECA.

N.W. Paint Technicians Discuss Particle Size

A. L. Bayles, manager of the fine particle process department of the C. H. Wheeler Manufacturing Company, Philadelphia, was featured speaker at the recent meeting of the Northwestern Paint and Varnish Production Club, St. Paul and Minneapolis, Minn. Mr. Bayles discussed "Fine Particles" from the standpoint of change in physical behavior as particle size is reduced and showed how decreased particle eases the problem of dispersion.

Phila. Paint Club Elects Collister New President

The Philadelphia Paint, Varnish and Lacquer Association elected Lloyd F. Collister, John Lucas & Co., president at its recent meeting. Other officers named were:—First vice-president, William MacKnight, Yarnall Paint Company; second vice-president, A. M. Wilson; treasurer, E. W. Kaufman, Archer-Daniels-Midland Company, and secretary, Charles P. Jarden.

Huber Describes Furnace Black

The J. M. Huber Corporation, New York, has published a bulletin describing its "Aromex (HAF)" furnace black. Physical and chemical characteristics of the product are given and formulas for using it in low temperature polymers and natural rubber are included. Copies may be obtained from the company at 342 Madison avenue, New York.

Hercules Revises Resin Data

Hercules Powder Company, Wilmington, Del., has published a revised edition of the technical booklet describing the properties and uses of its synthetic resins. The new edition includes a key to specific uses for the resins, as well as descriptions of the properties of each. Copies of the bulletin may be obtained from the company.

Trade Briefs

James W. Birch jr. has been appointed general manager of Dussi-Wallace & Co., exporter of plastics raw materials, New York.

Eagle-Picher Company, Cincinnati, has developed a new fireproofing cement that is claimed to impart sufficient strength to beams and other industrial steel equipment to keep them from collapsing in the event of fire.

Atlas Assigns Stierstorfer

The industrial finishes department of the Atlas Powder Company, Stamford, Conn., has appointed John A. Stierstorfer senior synthetic enamel chemist. The department has also issued a new folder describing its line of "Zapon" primers and primer surfacers.

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Cobalt Compounds
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Solid Oleates
Solid Linoleates
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* 2-Ethylhexoic Type

Ferro's full line of driers have continuous uniformity, exceptionally good dispersion qualities, improved stability, guaranteed metal content and unexcelled drying activity.

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Oils, Fats and Waxes

Buying interest in oils and fats lacked snap and was spotty last week. Price changes were confined to the downside but were not as drastic as previous weeks. Price index declined to 110.7 against 112.5, the week previous and 189.1 at this time last year.

Liberal offerings of crude coconut oil resulted in a drop of ¾ cent per pound. Copra was nominal, with buying interest slow. Corn oil was in light demand and off ¼ cent, while peanut oil was cut ½ cent as a result of additional peanut releases last week by the government. Trading in crude peanut oil was active at the lower levels.

Crude cottonseed oil was firm and in active demand. Refiners were reported purchasers of about 300 tankcars throughout the belt last week. Soybean oil also was well held, though in limited demand.

Slow demand for edible olive oil and lower prices for shipment kept the spot market unsettled and bids for sizeable lots could have further cut asking prices. Olive oil foots were easier and offers were available at a reduction of 1 cent per pound, with no takers. Textile mills were using substitutes which were cheaper than foots.

Another drop took place in linseed oil because of increased competition and slow consuming demand. Leading users were reported to be covered for the balance of this year and early next year. Tung oil was unsteady for forward delivery, while oil on the spot was well held.

Tallow and grease continued in a firm position. Export inquiry was quite active, with most interest in the higher grades of tallow, which were sold up. Offerings were scarce and exporters and small buyers paid premiums. Large domestic users were in the market at unchanged official prices, but business was turned down. Choice white grease in good request for export, while lower grades received little attention.

Market Trends

Prices Advanced

Palm oil, ½c. per lb.

Prices Reduced

Coconut oil, ¾c. per lb.
Corn oil, ½c. per lb.
Linseed oil, ½c. per lb.
Olive oil foots, 1c. per lb.
Peanut oil, ½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
110.7	112.5	119.4	189.1

(*For Current Prices see Page 9*)

Cottonseed Oil

Bleachable cottonseed oil futures continued to fluctuate within narrow limits last week. Trading was of moderate volume and the market scored moderate declines for prompt deliveries while futures were only slightly off. Hedge selling on upturns was absorbed by speculative longs. Steadiness in crude cottonseed oil served to stiffen futures, and heavy purchases of crude oil by refiners also was reflected in bleachable oil.

Refiners were reported to have purchased about 300 tankcars of crude oil at 10¼c. per pound, tankcars, f.o.b. mills, in the Southeast and Valley, and 10c. f.o.b. Texas mills. Sales also were noted at 10c. for November in the Southeast.

Sales and prices of refined bleachable prime summer yellow cottonseed oil in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended October 21 follow:—

	Sales	Cents per pound High	Low	Close
October	48	13.30	12.37	Expired
December	342	12.88	12.54	12.60S
January				*2.53@12.75
March	427	12.63	12.11	12.35S
May	194	12.57	12.10	12.30@12.34
July	53	12.55	12.25	12.30S
September	118	12.05	11.70	11.90@12.01
October	6	11.91	11.70	11.75@11.85

Total sales, 1,188 tankcars, including switches.

Memphis.—Trading took place in crude cottonseed oil at 10¼c. and crude soybean oil at 9⅞c. per pound, tankcars, Valley. Cottonseed meal, 41 percent quoted at $61 per ton, Memphis. Cottonseed cake, slabs $63.50 per ton, f.a.s. New Orleans. Hulls, $5 per ton, bulk and $12 sacked, Memphis.

Linseed Oil

Prices were further reduced last week, as a result of keener competition. Raw oil was cut 4 to 5 points for delivery during the balance of the year and 2 points for January-June. Tankcars were quoted at 17½c. per pound, zone 3, for October-June delivery. Some business was reported at the lower level. Trading was quiet for prompt needs as most consumers were covered for the balance of this year. Deliveries against contracts continued in good volume.

Minneapolis—Demand for linseed oil turned quiet as a 16.9c. price was quoted, raw oil, tanks, zone 1. This rather sharp price drop from the 17.5c. quoted on October oil earlier in the week caused business to slow up for a period and crushers reported only scattered small sales. Production continued at a good rate with local mills, at least 25 percent of the oil produced going to the government and the remainder to the private trade. Mills were in much better shape in shipping orders and only a few were lagging behind on shipments.

Shipments of linseed oil, in pounds, were as follows:—

	1949-50	1948-49
This week	9,480,000	7,340,000
Since Sept. 1	84,320,000	63,520,000

Flaxseed—Trading light as offerings continued light. Market remained steady.

Minneapolis—The outlook for decreased flaxseed production had little or no effect on the market, and the price basis wavered but little during the week. More than 60 percent of the crop has been marketed and crushers are in fair position regarding reserve stocks. The situation narrows down to one of price. Farmers who have been dissatisfied with prices of $3.65 to $3.99 have held back on marketings this Fall and are either storing their seed on farms, in country elevators or are shipping it to market for storage. Currently only a few cars per day are scheduled for the open market, the bulk of supplies being applied on previous sales or consigned to store where it is expected that they will remain for the support price of $3.99 or until crusher price ideas come nearer that level. Many in the trade are bullish on prices, and while the spot market is still quoted at $3.65 for the poorer quality seed the bulk of the supplies sells at $3.80 to $3.90 per bushel.

Shipments of flaxseed, in bushels, were as follows:—

Bushels—	Receipts 1949-50	1948-49	Shipments 1949-50	1948-49
This week	302,600	1,115,500	52,700	392,700
Since Sept. 1	10,335,900	24,263,500	759,800	4,376,500

Other Vegetable Oils

Castor Dehydrated—Prices were unchanged and steady. Demand was fair, mainly for prompt needs.

Coconut—This market was weaker and off about ¾c. per pound for the week. Prices fluctuated sharply with copra. Crude oil was quoted at 12¾c. per pound, tankcars, f.o.b. Pacific coast, October shipment, November, was sold at 12¼c., same basis; December, 12¼c., and January, 11⅞c., same basis. Business was reported slow. Imports of Philippine coconut oil totaled 86,662,228 pounds from January 1 to September 30, according to the Bureau of Customs.

Copra—Inquiry for shipment slackened and the market was nominal at $165 to $170 per short ton, c.i.f. Pacific coast.

Corn—Business was slow and the market lower. Crude oil was nominal at 11½c. per pound, tankcars, f.o.b. mills, for nearby. Sales took place at 11¼c. for November-December shipment. Refined oil

Cottonseed Crush Larger: August

Cottonseed received and crushed and production of cottonseed products during August and July, 1949, as compiled by Bureau of the Census, follows:—

Cottonseed

	Aug., 1949	July, 1949
	Tons	
Receipts	352,912	117,352
Crushed	207,023	146,611
Stocks at mills	278,387	132,498

Crude Oil

	Pounds	
Produced	64,805,000	48,656,000
Stocks at mills	13,065,000	14,013,000

Refined Oil

	Pounds	
Produced	71,976,000	61,255,000
Factory and whse. stocks	72,590,000	132,766,000

Cake and Meal

	Tons	
Produced	94,081	66,340
Stocks at mills	52,759	65,949

Hulls

	Tons	
Produced	48,136	34,605
Stocks at mills	84,753	94,892

Linters

	Bales	
Produced	*63,105	44,193
Stocks at mills	†108,800	141,773

* Includes 13,701 bales first cut, 44,558 bales second cut, and 4,846 bales mill run. Average gross bale weights:—Total, 614.8; first cut, 600.4; second cut, 623.5, and mill run, 576.0 pounds.

† Includes 7,877 bales first cut, 96,580 bales second cut, and 4,143 bales mill run.

For Late Market Developments, See Page 4

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was nominal at 14½c. to 14¾c. per pound, tankcars, New York delivery.

Oiticica—Consuming inquiry was restricted to small lots for prompt delivery. Quotations were unchanged and steady.

Olive—Consuming demand lacked snap, and prices of edible oils were unchanged, but could have been shaded for sizable quantities. Olive oil foots were inactive and offered freely at prices ranging from 15c. to 16c. per pound, drums, spot delivery, according to quantity. Late reports from U. S. Embassy at Rome stated that the Italian olive oil production is estimated at about 180,000 tons, compared with 98,000 tons last year and 212,000 tons in 1947.

Peanut—Increased offerings were readily taken at lower prices. Crude oil moved in good volume down to 11¼c. per pound, tankcars, f.o.b. mills, for October and early November shipment, a decline of ½c. for the week. Refined oil was quoted nominally at 14½c. to 14¾c. per pound, tankcars, New York basis.

Soybean—This market ruled on a steady basis, although trading was spotty. Crude oil was held at 10¼c. per pound, tankcars, f.o.b. mills. October shipment, and 10⅛c. for November. Sales took place at 9¾c. November-December. Refined edible oil was nominal at 13c. to 13¼c. per pound, tankcars, New York basis. PMA reported the purchase of 204 tankcars of crude soybean oil at 9¾c. per pound, buyer's tankcars, f.o.b. Decatur, and 46 tankcars at 9⅝c., same basis, from September 22 to 28.

Sales and prices of prime crude soybean oil on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended October 21 follow:—

	Sales	Cents per pound High	Low	Close
October	1	9.50	9.50	Expired
November	5	9.90	9.75	9.75@10.00
December	9	9.75	9.50	9.65@9.90
January	..	...	...	9.35@9.50
February	..	...	...	9.45N
March	2	9.40	9.35	9.25@9.40
April	...	...	...	9.35N
May	7	9.30	9.25	9.20@9.30
June	...	...	...	9.30N
July	11	9.20	9.20	9.10@9.25
August	..	...	...	9.20N
September	1	9.35	9.35	9.10@9.19
October	...	...	...	9.10N

Total sales, 36 tankcars.

Tung—Prices of imported oil were maintained at 25¾c. per pound, tankcars, New York, for spot delivery, while forward positions were unsteady. Inquiry was light and confined to immediate needs. November delivery was available at 25c. and December, 24¾c. Domestic oil was nominal at 25½c. to 26c., tankcars, f.o.b. mills, for November forward shipment. Arrivals totaled 235 tons at New York from the Argentine last week.

Fats and Greases

Greases—This market was steady, consuming inquiry mainly from small buyers who paid premiums for moderate quantities for choice white. Export inquiry was fair, chiefly for choice white. Yellow and lower grades were quiet, but steady. Official prices were unchanged with sellers asking from ¼c. to ½c. more.

Lard—Trading was reported slow for domestic needs, while export inquiry was fairly active. Refined was quoted at 14¾c. per pound, packages, f.a.s. for export. Cash lard was more or less nominal at 12c. per pound, tierces, Chicago. Stocks of lard and rendered pork fat in the United States totaled 47,603,000 pounds, October 1, against 68,830,000 pounds, September 1 and 96,587,000 pounds, October 1 last year. The 5-year October 1 average is 95,887,000 pounds. Lard stocks at Chicago were 22,698,260 pounds, October 15, compared with 27,459,330 pounds, October 1 and 42,632,024 pounds, October 15, 1948.

Tallow—Market continued firm and unchanged. Offerings of all grades were scarce and moderate sales were reported at premiums of ½c. to small buyers and for export. Fancy tallow was in active request for export and recent business has absorbed current production. Official prices were unchanged, but producers turned down business for sizable quantities from large users at these levels.

Animal Oils

Oleo Oil—This market was firmer, with demand active and supplies light. Extra oil was quoted at 15c. to 15½c. per pound, tierces, New York, as to quantity.

Neatsfoot Oil—Trading was light and spotty. Quotations for 15 deg. ranged from 28c. to 28½c. per pound, drums, as to quantity; 20 deg., 27c. to 27½c. and 30 deg. 21c. to 21½c., same basis.

Oleo Stearine—Demand was reported

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moderate, chiefly for prompt delivery. Prices ranged from 10½c. to 11c. per pound, barrels, New York, as to seller.

Fish Oils

Cod — Trading was reported slow. Tanked Newfoundland oil ranged from 9½c. to 10½c. per pound, drums, spot, depending upon quantity and 9c. for shipment, f.o.b. New York.

Fish—Refined oil was reported inactive. Quotations were unchanged for all grades but carlot business could have shaded the market. Crude menhaden was quiet and nominal at 6c. to 6½c. per pound, tankcars, works. Crude sardine was inactive but steady at 6c. bid and 6½c. asked, tankcars, f.o.b. Pacific coast. PMA reported the purchase of 1,875 tons of crude menhaden oil at 7½c. per pound, f.o.b. Cameron, La., and 507 tons at 7¾c. f.o.b. New York area, September 13 and 16.

Los Angeles.—Activity was dull with prices steady at 6.5c. asked and 6c. bid for sardine oil and 5c. asked and 4.75c. bid for tuna oil. Several factors have contributed to this condition, among them the trend of producers to store their oil in hopes of a higher market; the large inventories of canned stocks from this year's sardine catches; and the present price of fish meal. With meal going at prices higher per pound than oil, producers are looking for a higher market for the oil and not pushing their present stocks. Fishing has been spotty in the Monterey and San Francisco areas dependent on canners demands, while the San Pedro area has reported record catches for pilchards so far this year. Total landings for the three areas through October 15 are 105,546 tons compared to 59,229 tons for the same period last year.

Cake and Meal

Cottonseed Meal—Meal market was quiet. Loose slab cake was quoted at $52 to $53 per ton, f.o.b. Mississippi Valley points, October-November-December shipment, a drop of about $1 to $2 per ton. Sacked cottonseed meal, 41 percent, held at $60, Memphis; $59 to $60 Georgia points, and $61 to $62, South Carolina, October shipment. With the government estimate showing a decrease in the southeast cottonseed production, mills reduced offerings.

Linseed Meal—Business was fair. Prices for prompt shipment remained steady.

Minneapolis—Demand for meal continued fair to good, crushers having only limited amounts to offer for October-November shipment and holding prices firm at $61 to $63 per ton, in carlots, bulk, f.o.b. Minneapolis. Shipping instructions on maturing contracts were steady and movement of meal from local mills was at all time record levels.

Shipments of linseed meal, in pounds, were as follows:—

	1949-50	1948-49
This week	21,600,000	14,520,000
Since Sept. 1	145,430,000	128,800,000

Peanut Meal—Last week the government released about 8,000 tons peanut meal. This same amount was released the previous week and found a ready market due to export and domestic interest. The current short interest has apparently been considerably reduced. Meal, 45 percent, for immediate shipment was quoted at $62, and $61 for late October-November, f.o.b. mill points.

Soybean Meal—The rush of western beans to the mills during the past ten days has considerably weakened the soybean meal market because buyers apparently have taken care of a fair portion of their requirements and buying demand has been poor. There are a number of distressed offerings in the market for nearby shipment, but producers prices basis Decatur average $61.50 for November-March, with January-September at $60.

Waxes

Beeswax—Improved demand created a steadier tone last week. Prices of crude and refined grades were unchanged and well held.

Candelilla—Fair demand was reported for immediate delivery. Prices were maintained at former levels.

Carnauba—Trading for spot and forward delivery was spotty last week. Offers for shipment were firmly held. Quotations for all grades on the spot were unchanged and steady.

Ouricury—Demand was limited to small lots for actual requirements. Quotations for refined were unchanged.

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12—Stainless Steel Tanks, open top, 30 gal. and 150 gal.
1—Sharples No. 18V Supercentrifuge
1—DeLaval model AC-40 centrifuge
2—DeLaval No. 600 Separators
3—Jacketed and agitated Pan Dryers or graining kettles, 5' dia. x 30", 9'6" dia. x 36"
1—Screw Extractor Press 12" x 5'

PUMPS

2—Shriver Diaphragm No. 3A, 3", rubber lined, 7½" HP motor
2—Dorrco Diaphragm 4" and 6"
1—Allen-Sherman-Hoff Hydroseal Slurry, 4"
6—Duriron Acid Centrif. 2" x 1½"—80 GPM @ 45', 40 GPM @ 60'
3—Jog. Rand. Stainless Centrif. 4" x 3", 300 GPM @ 110'
10—Stainless Centrif. 3", 300 GPM @ 30'
2—Bronze Centrif. 200 GPM @ 230', 20 H.P. motor
1—Bronze Centrif. 850 GPM @ 140', 40 HP motor
15—Aurora Bronze Turbine; F-4, 1-4A, H-5, G-6, H-6
85—New Weinman Bronze Centrif. 3" x 2¼", 180 GPM @ 55' or 268 GPM @ 45'
8—New Tri-Clover Stainless Sanitary Centrif. No. 2EJ, No. 2EBH, No. 2½EH
30—Centrifugal Pumps, 1" to 6", var. capac.
1—Vacuum Pump, 6½" x 6"—62 CFM
Large stock Tanks, Kettles, Filters, Mixers, Bottling and Packaging equipment, etc.

WRITE FOR COMPLETE STOCK LIST
WE BUY SURPLUS EQUIPMENT & COMPLETE PLANTS

PERRY EQUIPMENT CORP.
1507 W. THOMPSON STREET • PHILA 21, PA.

ECA Sept. Spending

—Continued from page 4

made for the following:—$100,000 for copper; $15,400,000 for aluminum; $1,500,000 for zinc; $7,200,000 for lead; a decrease of $400,000 for brass and bronze; a decrease of $300,000 for nickel; $600,000 for other non-ferrous metals and products; $4,500,000 for hides, skins and leather; $11,200,000 for metallic ores and concentrates; $7,700,000 for nonmetallic minerals, and a decrease of $200,000 for naval stores.

INDUSTRY'S HELPING HAND FOR OVER 30 YEARS

—"CONSOLIDATED"—

Buy with Confidence—Save Time and $$$

1—6' x 4' Oliver ALL STAINLESS STEEL Top Feed ROTARY CONTINUOUS VACUUM FILTER. UNUSED—Never Installed. Intended to filter ammonium sulphate.
1—LOUISVILLE ROTARY STEAM TUBE DRYER, 6' x 50'.
1—Double shell direct fired ROTARY DRYER, inner shell 5'6" dia. x 59' long, outer shell 10' dia. x 40'6" long, complete with motor drive, oil burning equipment, instruments and accessories.
2—No. 12 SWEETLAND PRESSURE FILTERS, 36 leaves on 4", also 72 on 2".
1—8' x 12' OLIVER ACID-PROOF FILTER, lead fitted.
3—36" x 36" SPERRY 60-plate FILTER PRESSES, cast iron, recessed, center feed, open delivery, hydraulic closing, hydraulic pumps.
1—KILBY 39" x 39" cast iron FILTER PRESS, washing type, plate and frame, 47 chambers.
1—8' x 125' REEVES ROTARY KILN.
1—2' x 15' ROTARY KILN, experimental, complete.
2—6' x 12' ALLIS CHALMERS ROD MILLS.
1—ROTARY VACUUM DRYER, 5' x 33'.
3—7,500 gal. STEEL KETTLES, with copper coils, closed. Agitated. 10' dia. x 12'6" deep, 15' overall height.
2—900 gal. closed, jack., agit. STEEL KETTLES, 10 H.P. motors & drives.
1—2,000 gal. STEEL KETTLE, jack., open top, agit., 7' dia. x 7'6" deep.
2—BAKER PERKINS MIXERS, size 17. Jacketed, 200 gallon.
1—VACUUM SHELF DRYER, 17 shelves, 40" x 43".
1—No. 4-TH MIKRO PULVERIZER. Rebuilt—immediate shipment.
2—200 gal. PATTERSON PEBBLE MILLS, Buhrstone-lined, 4' x 5'.
1—300 gal. PATTERSON HIGH CHROME MANGANESE BALL MILL, 54" x 54", jacketed, with drive and motor.
1—J. H. Day Aluminum Horiz. 1,000# DRY POWDER MIXER.

ONLY A PARTIAL LISTING

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SAVE CASH
SAVE TIME

THE KEY TO SAVING TIME AND MONEY
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Shops: 335 Doremus Ave., Newark, N.J. Cable Address: Equipment, N.Y.
WANTED—YOUR IDLE MACHINES—SEND LIST NOW
WE BUY AND SELL—FROM SINGLE ITEMS TO COMPLETE PLANTS

YOUR CASH NOW BUYS MORE
ACT!

AVAILABLE NOW—

CHEMICAL STORAGE FACILITIES at WATER TERMINAL

In Chicago, Ill., on Chicago Sanitary District Canal, at Harlem Ave. Access to Great Lakes and Mississippi River. Barge unloading and tank car or truck loading facilities. Tank space available. Will build to suit any specialized needs.

Inquire:

Arrow Petroleum Co.
7419 FRANKLIN STREET
FOREST PARK, ILLINOIS

IN STOCK • PRICES CUT

Colton No. 5½T Preform Tablet Machine, 3" dia., 5 HP. Motor.
6—Anderson No. 1 Expellers.
2—Dopp 1,000 gal. Jack. Agit. Kettles, Dopploy Acid Resistant & Iron.
1—Lehman 4 Roll W.C. 12"x36" Steel Mill.
1—Hardinge Conical Ball Mill, 4½'x24".
1—Denver 4'x3' Rotary Vac. Filter, Motor Driven, complete.
4—Allbright-Nell 4'x9' Atmos. Drum Dryers & Flakers.
2—Devine No. 5 Vac. 4 Shelf Dryers.
1—Badger 42" dia. Monel column.
1—Buffalo Vac. Drum Dryer, 24"x20".
1—Century 2 HP, 4 speed Vert. Mixer.
3—Baker Perkins heavy duty Jack. Mixers, 200, 100, 50, 9 & 0.7 gals.
4—Abbe Pebble Mills, 6'x5', 60"x43".
3—Abbe Jar Mills, Lab. to 2 gal. sizes.
1—U. S. Stainless Colloid Mill, 5 HP.
15—Sperry & Shriver, 12", 18", 24", 30", 32" & 42" sq. Iron Filter Presses.
2—Sperry 18" Lead Filter Presses.
Extra 36" Iron Sperry Plates & Frames.
2—Shriver 18" Wood Filter Presses.
5—Tyler 38 Jr. Hummer Screens, 24"x60" & 20"x60" Split Screen.
2—Robinson No. 10 Saw Tooth Crushers.
6—Tolhurst 40" Suspended Type Centrifugals, Bottom Discharge.
3—Lehman & Kent 3-Roll Steel Mills, 3"x9", 9"x32", 12"x30", 16"x40".
4—Stokes & Colton Rotary & Single Punch Tablet Machines, ½" to 3".
1—Colton Hand Oper. Tube Filler.
1—Sprout Waldron 16" Ball Bearing Attrition Mill, two 7½ HP motors.
11—Sharples No. 5A Stainless Oil Centrifuges, 2 HP. Also No. 6.
1—Marco Stainless Homogenizer.
Devine 500, 800 & 1,000 gal. closed steal Kettles & Stills. 250 gal. lead lined kettle.
10—Dry Powder Mixers, 50 to 2,500 lbs.
6—Pony Mixers, 2½ to 40 gals.
3—Stokes & Day Powder Fillers, Sifters.
10—Stokes Vert. High Vac. Pumps.
2—Duriron 3"x2" Centrif. Pumps.
1—Sturtevant 36" Rock Emery Mill.
1—Samco Jr. Vac. Bottle Filler.
20—Stainless, Alum., Copper & Glass-Lined Kettles & Tanks, new & used.
6—Filling, Labeling, Cartoning & Wrapping Machines. Colton Tube Fillers.
15—Port. Elec. Mixers, ½-2 HP.
3—Rotary Cutters, 5 & 40 HP.
8—Hammer Mills, 3 to 60 HP.
1—Stedman 32" Single Roll Crusher.
6—Centrifugals, 26", 30" & 40".
4—No. 0000 and No. 0 Raymond Mills.
6—Lead & Paste Mixers to 300 gals.
2—Worth 12"x12"x12" Vac. Pumps.
2—DeLaval Mult. Clarifiers, 300 & 301.
Soap Machinery for Toilet, Laundry, etc.

WRITE FOR BULLETIN. WE BUY YOUR SURPLUS MACHINERY.

STEIN EQUIP'T CO.
90 WEST STREET, NEW YORK 6, N. Y.

Burding Heads Jelke

Warren N. Burding has been appointed president of the John F. Jelke Company, manufacturer of margarin and related food products, Chicago. Retiring president of the Jelke concern, a Lever Brothers Company subsidiary, is James M. Elliott. Prior to his present appointment, Mr. Burding was a vice-president of Standard Brands, Inc., New York, where, for the past five years, he was in charge of the company's grocery division.

Botanical Drugs

—Continued from page 63

for East Indian material held to former quotations.

Pepper—Black pepper prices were still on the advance last week, and the material was selling at $1.36 to $1.37 per pound. October prices, now afloat, were somewhat lower at $1.35 to $1.36, but it was considered that by the material arrived it would fetch the spot price. Futures prices for January arrival were somewhat lower at $1.05 to $1.07 per pound. White pepper was virtually unobtainable on the spot and futures were bringing as high at $1.95 to $1.96 per pound. Some talk was heard of the Indian government imposing an export tax on pepper, probably derived from the fact that that government has been empowered to tax exports of vegetable oils, oilseeds, vanaspati, shellac and other agricultural products.

Chemical Machinery Men's Club to Hold Meeting Nov. 1

The Chemical Machinery Men's Club will hold its first formal meeting and will elect officers in the Statler hotel, New York, on November 1. The idea of the club was conceived by Fred R. Firstenberg, president of the First Machinery Corporation, New York, and was organized at a preliminary meeting last spring.

F. R. Firstenberg

Among those who attended the spring meeting were Lou Brill, Ted Golden, James Stepner and Harry Litt, of Brill Equipment Company; Martin Cowan, Henry Cohen and Bill Wolf of Consolidated Products; Emil Schroth and M. Becker of Emsco Equipment; Edward and Lawrence Gelb of R. Gelb & Sons, Inc.; Mike Firstenberg and Leon Jasper of Chemical & Process Equipment Company; Irving Barcan of the company of that name; Jerry and Fred Stein of Stein Equipment Company; Harry Pearlman of Machinery & Equipment Company; Perez Epstein of Perry Equipment Company; Lester Kehoe and John Drury of L. Kehoe Machinery Company; A. G. Loeb of Loeb Equipment Company; Herman Greenberg of Union Standard Equipment Company; Gilbert Kahn of Eagle Industries; Irving Hirsch of the Newark Equipment firm of that name; Mr. Firstenberg and Louis J. Shapiro of First Machinery; Ed Storms of Storms-Harvey Inc.; Jack Goldbery of L. Firstenberg Supply Company, and David M. Gold of Equipment Clearing House Inc.

Paint Spray Handbook Offered

The Electric Sprayit Company, Sheboygan, Wis., has published a booklet designed to help the reader determine what type of spraying equipment is best suited to his requirements. Copies may be obtained by writing department 901 of the company at Sheboygan.

Outstanding Equipment at the Right Price

1—New Glasscote 1,000 gal Jacketed Agitated Glass Lined Reactor.
1—New Pfaudler Glass Lined Reactor, 500 gals.
1—Code Welded Type 316 Stainless Steel Jack. Reactor, 1,000 gals. with Agitator and Exp. Pf. Motor.
1—Stainless Steel 2,500 gal. Vertical Tank with Agitator.
4—Vert. 8,000 gal. Stainless Steel Storage Tanks.
2—Abbe 6' x 8' Buhrstone Lined Pebble Mills.
16—Horiz. Dry Powder Mixers, 15 pounds to 2,500 pounds.
3—Mikro Pulverizers, Model 2TH—10 & 15 H.P.
1—Fowler Stainless Steel Vac. Gravity 9 Stem Rotary Gallon Filler.
2—Colton No. 17 & No. 30 Automatic Tube Fillers, Closers and Crimpers.
1—Sperry 42" Wood Plate & Frame Filter Press, Hyd. Closure 57 ch., 1¾" cake.
1—Stokes 30" x 8' Rotary Vacuum Dryer.
12—New 100 gallon Stainless Steel Clad Jack. Kettles.

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The Machinery and Equipment Corp.
533 West Broadway
New York 12, N. Y. GRamercy 5-6680

MORE ECH BARGAINS in GOOD EQUIPMENT!

Stokes 2 Shelf Vacuum Dryer with condenser base . . . $325

Rietz S.S. Disintegrator with 30 HP motor $975

New Jersey Pony Labelrite complete pump and motor . . $675

Stokes 148C Hi-Vac. Pump with 1½ H.P. 28 CFM $275

W&P 40 Gal. Jktd. Mixer with VACUUM cover—stainless lined, power screw tilt $950

Complete N.Y. Packaging Plant with Pneumatic, Johnson and Stokes & Smith lines plus Powder Mixers . . . . sacrificed Stainless Steel Tanks and Kettles, absurdly low prices.

You owe it to your company to check your needs with ECH.

"You can BANK on the . . .

EQUIPMENT CLEARING HOUSE, INC.
289-10th ST., BKLYN 15, N. Y.

PROCESS EQUIPMENT FOR SALE

1—Premier 15" Colloid Mill
1—Ceco Automatic Carton Sealer
3—New 65 gallon Dopp Kettles
1—Day "Hercules" 6 bbl. Mixer
1—Day 16"x40" Three Roller Mill
3—Lehman 12"x30" Five Roller Mills
1—Sperry 24" O.D. Filter Press
1—6' Dia. Putty Chaser
1—Raymond #1 Pulverizer
1—American 4"x3" Centr. Pump
1—7½ ℍ Vertical Agitator Drive
1—10' Dia. x 25' long Autoclave
1—42" Dia. x 24' Long Autoclave

ASK FOR STOCK SHEET "I"

EMSCO EQUIPMENT COMPANY
AFFILIATE OF EMIL A. SCHROTH
73 HYATT AVENUE, NEWARK 5, N. J.
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SPECIAL SOLVENT STORAGE SPACE FOR LEASE

Storage tanks for special Solvents, 5, 10, 20 thousand gallon capacity. Plant located within 10 miles of Boston, Railroad siding and transport loading platform. Monthly or through put rate.

ADDRESS INQUIRIES TO:
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SURPLUS EQUIPMENT for IMMEDIATE DISPOSAL

1—1500 Gallon Steel Jacketed Kettle complete with Turbine Mixer.
1—500 Gallon Steel Jacketed Kettle.
2—F M C Rotary Syphon Fillers for Cans or Bottles.
1—Charlotte Colloid Mill.
1—Homogenizer.
6—1500 Gallon Storage Tanks.
2—1000 Gallon Storage Tanks.
6—100 Gallon Porcelain Lined Tanks.
2—Exhaust Fans, 1 Hood.
3—Transfer Pumps.

JOSEPH GREEN
18 BRIDGE STREET
BROOKLYN 1, N.Y.
ULster 5-6565

EXTRA! EXTRA!

4—Rotex 40" x 96" sifters—1 to 4 separations.
1—NEW Bird 40" rubber covered suspend. centrifuge—30/5 HP motor.
3—Shriver 30" x 30" Iron filter presses—30 chambers—open del.
1—NEW Baker Perkins 100 gal. model JNM sigma bladed mixer—jacketed 20 HP xp motor—CHROME PLATED.
1—Perfection automatic ampule sealer.
2—Patterson type D 4' x 5' porcelain lined pebble mills—MD.
1—NEW 100 gal. Struthers Wells NICKEL CLAD still, jacketed & agitated.
1—NEW copper beer still—30" x 24"—vertical.
1—Stokes 15 gal. lab still jacketed and agitated—MD.
1—Devine 16 shelf vac dryer—36" x 44"—with vac pump & condensor.
3—Swenson single effect evaporators—vertical film type complete—2—monel & 1 all steel.

Now Is the Time to Act—Our Warehouse Is Loaded With Fine Machinery . . . .

CHEMICAL & PROCESS MACHINERY CORPORATION
146 GRAND ST. • NEW YORK 13
WOrth 4-8130

EQUIPMENT FOR CHEMICAL AND ALLIED INDUSTRIES

1—Bird Stainless Steel, Suspended Centrifuge, 40" basket.

1—Tolhurst rubber lined suspended type Centrifuge, 40" perforated basket.
1—Tolhurst rubber lined center slung Centrifuge, 30" perforated basket.
2—Pfaudler 50 gallon glass lined jacketed stills, complete.
1—Glascote 350 gallon jacketed glass lined kettle.
2—Rubber-lined storage tanks, 7,800 gallons.
1—J.P. Devine vacuum shelf Dryer, 5 shelves, complete.
1—Buffalo single door vacuum shelf dryer, 17 shelves.
1—Sperry 24" Stainless Steel Filter Press, 12 chambers, hydraulic closing.

R. GELB & SONS, INC.
Est. 1886 UNION, N. J.
UNionville 2-4900

FOR SALE

3—9" x 24" motor driven roller mills.
1—16 x 40 roller mill.
3—12 x 30 roller mills.
PONY MIXERS from 2½ gallons to 40 gallons.
2—4'6" x 5' burr stone-lined pebble mills.
1—Paterson 6' x 5' watercooled steel ball mill.
10—New portable tanks on wheels, size 36 x 36, for change can mixers.
10—8" Premier Colloid Mills.

Specializing in Rebuilt Machinery

IRVING BARCAN COMPANY
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FOR SALE

1, 40-Ton, All-Steel Covered Hopper Car discharging through 4 openings on one side only. FOR HAULING SODA ASH.

Also

STEEL STORAGE TANK CAR TANKS
9, 10,000-Gallon, Coiled.
3, 8000-Gallon, Coiled or Non-Coiled.

Available at Once!

IRON & STEEL PRODUCTS, INC.
13454 S. Brainard Ave., Chicago 33, Ill.
"ANYTHING containing IRON or STEEL"

NEW AND GOOD-AS-NEW EQUIPMENT

Stainless Steel Tanks, new, 100 and 200 gal., dished bottoms with stands.
20—Steam Jacketed Kettles, Stainless Steel & Aluminum, 30 to 250 gals.
50—Pumps (Steam and Electric), used & new.
New and used high pressure Steam Boilers, 2 H.P. to 250 H.P.
1—Stedman 40" Cage Disintegrator.
1—Buflovak Impregnating Tank, 42" x 52", steam jacketed.
2—Flow-Master Kom-bi-nators.
2—New Ribbon Type Mixers, 8 & 24 cu. ft.
2—Ribbon Type Mixers, steam jacketed.
4—Steel Tanks, 100,000 gals. each.
9—Steel Tanks, 67,500 gals. each.
1—500 gal. Vert. Glass-Lined Tank, closed top, on stand.
1—150 gal. Jacketed Glass-Lined Tank with agitator.
1—Sweetland Filter, No. 5, 15 leaves.
1—Sperry Filter, 18 x 18—24 plate.
6—Stokes Rotary Tablet Machines, Model RD-4.
10—New Sharples Oil Purifiers.
6—New Clevon Can Filling Machines.

SPECIAL 1—Patterson Pebble Mill, 36" diam. x 42", silex lined—like new.
2—Ransome Rotary Agitators, 9' dia. x 11'6". New.

H. LOEB & SON :-: 4643 LANCASTER AVE. PHILADELPHIA 31, PA.

WANTED
DIMETHYL PHTHALATE
DIOCTYL PHTHALATE
PHTHALIC ANHYDRIDE
TITANIUM PIGMENTS
Other Chemicals and Raw Materials

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HAnover 2-6970

Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE (Not Subject to Agency Commission)

ALL CLASSIFIED ADVERTISEMENTS—$5.00, thirty-six words or less; 85c. for each additional six words or fraction.

NO DISPLAY—First two words printed in bold face type.

COPY DEADLINE—Wednesday Noon Preceding Date of Publication.

AGENCIES OFFERED

Aluminum powder and paste—Sales agent wanted, fully qualified, with good following, on commission basis, for sale of full competitive line. OPD 834.

Old established New York importers of raw materials for paint, rubber, leather, cosmetic and other manufacturers, has opening for agents in Boston, Pittsburgh and some western cities. Liberal commission on sales. Write regarding experience and other details. OPD 814.

AGENCIES WANTED

Established chemical Co. in San Francisco, with diversified sales outlets, wants additional chemical or allied lines for Pacific Coast or 11 Western states. Office and warehouse in industrial district. Graduate chemist employed. Flamort Chemical Co., 746 Natoma Street, San Francisco 3, Cal.

BUSINESS WANTED

Chemist with production management experience, will invest in or purchase outright, going concern. Wholesale or manufacturing chemical or drug plant preferred. OPD 838.

EQUIPMENT OFFERED

Filter Press—Brand new Sperry 24x24 closed delivery washing type filter press. Located New York City. Also unused air compressor, oil tank and fittings, blower, Howe scale, crusher and grinder. Must sell this week. Oregon 4-7201.

Stokes high vacuum pumps—212C, water-cooled, 100 cfm; V-drive; used 3 months; satisfaction guaranteed. Price $349 each; quantity available; inspect. American Sales Co., 67 E. 8th St., New York, N. Y. GRamercy 3-1465.

FACILITIES OFFERED

Laboratory offered for processing your formulas or ours, by experienced expert registered pharmaceutical personnel. Write for full information and appointments. No obligation. OPD 837.

Facilities offered for mixing dry chemicals carload and less carload. Also grinding, pulverizing, drying, screening and packing done. Experienced, capable personnel. Modern plant with rail siding located Metropolitan New York. Reply OPD 808.

Chemical manufacturing facilities; blending, mixing, crushing and grinding to any fineness; any quantity; competent laboratory control. OPD 809.

MATERIALS OFFERED

Free 20 per cent sodium sulfide liquor in tank cars or drums, f.o.b., Cincinnati, Ohio. OPD 824.

Methyl Acetate—Technical grade, water white, in quantity; substantial discounts on carload lots; excellent substitute for ethyl acetate. Suggested uses—solvent for gums, resins, paints, varnishes, lacquers and thinners; for compounding artificial leather coatings, cleaning compounds, insecticides and polishes. Now negotiating 1950 contracts. OPD 829.

Antacid tablets for immediate delivery in bulk lots of 250 000 or more. Very attractive price. Exceptionally effective formula. Samples upon request. No obligation. OPD 835.

Offering: Homatropine methylbromide N. F. Other fine chemicals. Oil pennyroyal European; oil cardamom N. F.; oil coriander U. S. P. Write for quotations. No obligation. OPD 836.

MATERIALS WANTED

To manufacturers and jobbers. Are you overstocked? We require immediately large or small lots many items chemicals, pharmaceuticals, solvents, aromatics, waxes, other supplies. Submit offerings at once. Correspondence treated confidentially. OPD 815.

Wanted: Crude coal tar and water gas tar in quantities. We have facilities for immediate removal. R. R. tank cars, tank trucks, storage tanks. P. S. Kramer, Tar Refiner, 7 Smith St., Paterson 1, N. J.

Cholesterol Wanted: Send specifications and prices for various quantities. We are interested in small and large lots. OPD 839.

PARTNERSHIP OFFERED

Adhesive Salesman: Experienced, willing to make investment with half interest. Have fully equipped manufacturing plant in New York City. Present partner has other interests. OPD 827.

PARTNERSHIP WANTED

Organic Chemist: Diligent, versatile, industrial experience; production, sales, research. Will purchase part interest or invest substantial capital, full time services, in a going pharmaceutical, chemical or allied business. New York City or suburbs preferred. OPD 825.

Partnership Wanted—Industrial chemist with background of twenty years of varied experience wishes to invest services and capital in a chemical manufacturing business. OPD 831.

PLANTS WANTED

Wanted—Complete plants; also machinery—Large engineering firm wishes to acquire several complete plants through purchase of (1) capital stock; (2) assets; (3) machinery and equipment, whole, or in part. Personnel retained where possible. Strictest confidence. Box 694, 1474 Broadway, New York 18, N. Y.

POSITIONS OFFERED

We are seeking the services of a top grade pharmaceutical chemist to take complete charge of production, product development and control. We prefer a Ph.D. who has had considerable experience in pharmaceuticals. OPD 828.

Opening for experienced, chemically trained man for sales and technical service on fats, oils, fatty acids and derivatives. Must be well qualified, under 40, willing locate Los Angeles, and travel. Salary open. Give complete resume including recent picture and salary desired. Address reply to W. C. Hardesty Company, Inc., 5656 East 61st Street, Los Angeles, Cal.

POSITIONS WANTED

Chemical Sales—Engineer, now employed, 10 years management, organization in organics, desires new sales, service connection. Unusual combination of technical and sales ability will bring you returns. New York, New Jersey preferred but not essential. OPD 826.

Purchasing Agent—Ten years broad experience in large volume purchasing of chemicals and chemical raw materials. Qualified for buying position requiring knowledge sources of supply, executive ability. OPD 830.

Organic: B.S., 1947; age 24, married. Two years experience with fats and oils, insecticide emulsifiers, fatty acid derivatives, synthetic waxes, surface agents, wool grease and lanolin. Interested in a position with a future. Available immediately. OPD 832.

Alkaloids, hormones, glucosides, resins, solid, powdered and fluid extracts, fine organic pharmaceuticals, synthetic aromatics. Qualified chemist opening or would purchase facilities Northern N. J. or N. Y. OPD 833.

Chemical sales executive, 35, personable, grounded industrial, agricultural markets (bulk consumer package). Sales, management, administration, promotion, advertising, product development, field research. Heavy experience fungicides, sanitizers, germicides, synthetic detergents, herbicides, emulsifiers, preservatives, resins, plastics, textile finishes, wetting agents, degreasers, rubber compounds, insecticides. Extensive contacts. Seeks responsible position with aggressive manufacturer, chemical or allied fields. OPD 822.

COMPLETE SOLVENT RECOVERY SYSTEM

Capacity approximately 39,000 CFM, consisting of 4—6 x 34 all stainless, type 304 Adsorbers, 30,000# activated carbon, Stainless Ducts, hydraulically operated stainless fitted valves, stainless condenser, stainless impeller fan.

Also COMPLETE DISTILLATION UNIT, capacity approx. 400 GPH mixed solvents, consisting of 24" & 30" Copper Columns, with Preheater, Condensers, Pumps, Rotameters, and instruments.

Above set up as operated, in perfect condition, immediately available, priced far below present day replacement value. Write or wire us for inspection arrangements.

Consolidated Products Co., Inc.
13-18 Park Row New York 7, N. Y.

FOR SALE

We have just acquired several lots of Stainless Steel equipment in excellent condition.

3—STAINLESS STEEL TANKS, 3450 GAL. CAP., 9' dia x 7'3", deep, flat bottom, flat bolted top; made of ⅛" thick type 347 (18-8-Cb) stainless. Tanks equipped with coils.

4—STAINLESS STEEL BUBBLE CAP COLUMNS, 6' dia. x 30' high, 30 plates; made of type 347 (18-8-Cb) stainless.

2—STAINLESS STEEL SPRAY TOWERS, 33" dia x 17' high; made of type 347 (18-8-Cb) stainless.

2—SHARPLES #16V CENTRIFUGES, type 304 stainless steel; built 1943.

PERRY EQUIPMENT CORP.
1507 W. Thompson St.
Philadelphia 21, Pa.

NPVLA Sets Program

—*Continued from page 7*

group meeting at 10 a.m., and the executive committee and industrial finishes steering committee will meet for luncheon.

There will be an industrial division forum in the morning, with Joseph A. Hager acting as chairman. Mr. Battley will introduce the guest speaker, Secretary of the Air Force W. Stuart Symington.

At the general session in the afternoon, the 1950 national advertising program of the association will be unveiled. There will also be a trade sales session, presided over by Roy W. Lindsay, which will be devoted to a discussion of "Paint Power" by A. A. Shuger, chairman of the sales training subcommittee, and Leo Nejelski, management counselor.

The fifty-year Club and the WPB advisory committee will hold dinner meetings in the evening.

November 2

The naval stores breakfast will be held at 8:30 a.m., and the executive committee will convene for a luncheon session at 1 p.m.

At the general session in the morning, final reports will be presented by the by-laws and nominating committees, officers will be elected and installed, and consideration will be given to committee reports and resolutions.

Granville M. Breinig, chairman of the Clean Up-Paint Up-Fix Up program, will discuss how such programs are conceived, planned and motivated by members of the industry, and Wallace F. Bennett, president of the National Association of Manufacturers, will present an address entitled "Security and/or Freedom."

For the Bookshelf

—*Continued from page 34*

even on such things as azulenes and terpinene dihalogenides.

ESSENTIAL OIL PRODUCTION IN TEXAS: II Sweet Goldenrod. By Bryant R. Hollan, P. R. Johnson, J. H. Sorrels. Paper; v+22 pages. College Station, Texas: Agricultural and Mechanical College of Texas.

Solidago odorato has long had an interest for those who have known the pleasant aroma of its characteristically clustered flowers. That odor has been variously described—all the way from lemonlike to licoricelike. It actually is peculiar to itself, and it is promising as an odorant in many fields.

The Texas Engineering Experiment Station has taken hold of sweet goldenrod in an earnest fashion, deriving from a belief that the oil is a profitable article of commerce. This report (bulletin No. 107) tells what has been learned about cultivating the plant, producing the oil, and deterpenizing it to get a more anise-like odor. Nine bibliographic references are included.

Solidago odorato will grow, does grow wild, in many parts of the United States. As a replacer of anise it has a deal of promise.

Paint Show Exhibitors

—*Continued from page 71*

Resinous Products Division Rohm & Haas Company

Booth Nos. 13 & 14

An exhibit contrasting very old methods of finishing and modern methods of finishing by displaying an early Philadelphia interior and a modern Philadelphia interior of a room. The type of paint products used to coat the articles in the modern room will illustrate the fast-drying characteristics, durability and color retention of materials now available for this purpose. Complete literature on synthetic resins will be available, including new products offered since the 1948 paint show—"Duraplexes C-55," "C-57," "DX-656" and "Uformite MX-61."

Ross & Rowe, Inc.

Booth No. 24

Presenting the new advantages to be found in using "Yelkin TTS," the standardized lecithin, in paints and varnishes. A new viscosity modifier, "R. & R. 449," will be presented for the first time to improve the coverage and brushing properties of primers and finishes. Service bulletins will be available.

Charles Ross & Son Company

Booth No. 81

A display of No. 130-HDM direct motor-driven double planetary changeable can mixer, a new type laboratory three-roller mill, and a No. 30-El motor-driven laboratory change can mixer. Literature covering mixing and grinding equipment available.

Scientific Section Nat'l Paint, Varnish & Lacquer Assn.

Booth No. 20

A display of slide projections demonstrating the effect of moisture on paint films, how to detect moisture conditions and how to eliminate this difficulty. Exhibits showing various projects under way in the scientific section, such as problems of dispersion, and so forth.

Shell Oil Company Shell Chemical Corporation

Booth Nos. 60, 61 & 62

An exhibit to stress the application of various chemicals, solvents and naphthas to the paint industry, exhibiting a graphic chart, entitled "The Properties of Solvents, Diluents and Plasticizers."

South Florida Test Service

Booth No. 44

A display illustrating the various services offered, covering panel preparation and evaluating panel exposures on normal land racks as well as sea-water immersion.

Sparkler Manufacturing Company

Booth No. 80

An exhibit showing model 18-S-15 Sparkler horizontal plate filter and a working model demonstrator. Literature showing sizes and models available.

Spencer Kellogg & Sons, Inc.

Booth No. 36

This exhibit features "Drisoy," chemically treated soybean oil; "Synthenol," dehydrated castor oil; various chemically treated linseed oils; the regular line of varnish and polymerized linseed and soybean oils. Literature is available describing the application of these special oils as well as a catalog of oils made by Spencer Kellogg.

Swift & Co., Industrial Oils Dept.

Booth No. 42

An exhibit featuring various chemicals and oils such as hydrogenated fats and fatty acids, fractionated drying oils, stearic acid, sulfonated oils and anti-foam agents.

Troy Engine & Machine Company

Booth No. 79

An exhibit featuring Troy roller mills and mixing equipment formerly manufactured by C. O. Bartlett & Snow Company, also "Keenok Uniroll" mills made in England. Operating models of the mills demonstrated and literature available on all equipment.

United Distillers of America, Inc.

Booth No. 45

This exhibit shows the many uses for "Saf-Tex" proprietary ethyl alcohol solvent, including its use in shellacs, varnishes and lacquers. Small size containers of this solvent for distribution through retail stores are shown as well as facilities depicted for supplying this product to industrial users in quantities from drums to tank cars. Also exhibited will be specially denatured alcohol formulas, anhydrous alcohol in all grades as well as fusel oil, which are available in bulk for use by manufacturers of varnish, shellac and lacquer.

Upressit Products Corporation

Booth No. 78

A display of customers' lithographed cans equipped with Upressit nozzles, caps and bands, samples of tamperproof bands, export overseals and a picture of the new fully automatic capping machine.

U. S. Industrial Chemicals, Inc.

Booth Nos. 8 & 9

Featuring the following major products of its manufacture which are used in the paint industry: Industrial alcohol and solvents, natural resins and synthetic resins.

Warwick Chemical Company Sun Chemical Corporation

Booth Nos. 68 & 69

A display featuring stearates and their use in formulations to provide many desirable properties in finishes.

G. A. Wharry & Co.

Booth No. 59

A display featuring "Calcikol," a limed oil type of flat vehicle having exceptional non-penetrating washability qualities producing a flat with good flow and permanent viscosity. Alkyds, hard resins and low cost paint vehicles designed particularly for architectural types of paints are also exhibited as well as "Whitene" and "Whitex" grades of whiting.

Witco Chemical Company

Booth No. 43

Driers, stearates, and pigments will be featured. Complete lines of naphthenate and octoic driers will be shown. Metallic stearates used for flatting, suspending, bodying and sanding will be exhibited. Pigments include carbon blacks, colors, precipitated calcium carbonates and inerts. Literature on all of these products available.

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Shell Oil Company has completed a new shop building designed to handle $4,000,000 worth of maintenance and construction work a year at its Deer Park refinery.

Socony-Vacuum Oil Company, New York, has appointed John Wilbur, formerly manager of supply and distribution of the firm's Chicago marketing division, coordinator of supply and operations of the central marketing area.

Shamrock Oil & Gas Corporation is constructing a perco cycloversion unit, designed for a capacity of 1,500 barrels per day, at its Sunray, Tex., refinery. Upon completion early in 1950, the unit will be operated for both gas oil cracking and naphtha reforming.

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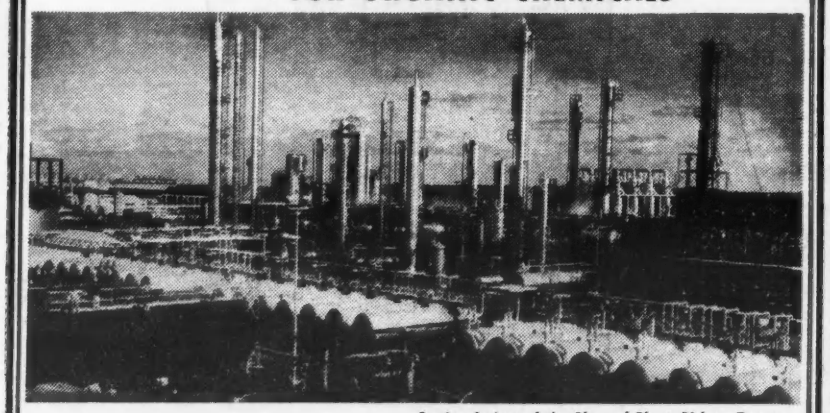

Sectional view of the Chemcel Plant, Bishop, Texas.

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